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# CATALOGUE

OF

# ILLINOIS COLLEGE



SEVENTY-SECOND YEAR

ANNOUNCEMENTS 1901-1902  
REGISTER 1900-1901

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JACKSONVILLE, ILLINOIS, *d*  
APRIL, 1901.

## CORRESPONDENCE.

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Correspondence addressed simply to ILLINOIS COLLEGE may be expected to reach the proper department, but, in order to avoid delay and possible confusion, correspondents are requested to note the following directions:

Communications relating to matters directly in the charge of the Trustees should be addressed to the SECRETARY OF THE TRUSTEES. Correspondence bearing upon the general interests of the College should be addressed to the PRESIDENT. Inquiries concerning conditions of entrance, whether by examination or certificate, concerning undergraduate courses, and other matters pertaining to the students should be addressed to the DEAN. Requests for the Annual Catalogue and other publications, and inquiries relating to expenses should be addressed to the REGISTRAR. Inquiries or information concerning alumni should be sent to the LIBRARIAN.

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# COLLEGE CALENDAR, 1901-1902.

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1901.

- September 23-24. Monday and Tuesday.* Examinations for admission to the Freshman class and to advanced standing.
- September 24. Tuesday.* Last day for registration of undergraduate students.
- September 25. Wednesday.* FIRST SEMESTER BEGINS : 9:15 a. m.
- November 28 to December 2. Wednesday noon to Monday noon.* Thanksgiving Recess.
- December 12. Thursday.* Winter Meeting of the Board of Trustees at Chicago.
- December 21, 1901, to January 7, 1902. Saturday to Tuesday,* 9:15 a. m. Christmas Recess.

1902.

- February 10-14. Monday to Friday, inclusive.* Mid-year Examinations.
- February 17. Monday.* SECOND SEMESTER BEGINS, 8:15 a. m.
- February 22. Saturday.* Washington's Birthday Commemorative Exercises.
- March 18. Tuesday.* Gymnasium Contest.
- March 19-25. Wednesday noon to Tuesday, inclusive.* Spring Recess.

<i>April 11.</i>	<i>Friday.</i> Senior Oratorical Contest.
<i>May 9.</i>	<i>Friday.</i> Freshman Prize Declamation.
<i>June 9-13.</i>	<i>Monday to Friday.</i> Senior Examinations.
<i>June 16-20.</i>	<i>Monday to Friday.</i> Regular Examinations.
<i>June 22.</i>	<i>Sunday.</i> Baccalaureate Sermon.
<i>June 23.</i>	<i>Monday.</i> Junior Prize Speaking.
<i>June 24.</i>	<i>Tuesday.</i> Osage Orange Day. Class Reunions.
<i>June 25.</i>	<i>Wednesday.</i> Annual Meeting of the Board of Trustees. Class Day.
<i>June 26.</i>	<i>Thursday.</i> Annual Commencement.

## SUMMER VACATION.

<i>Sept. 22-23.</i>	<i>Monday and Tuesday.</i> Examinations for admission to the Freshman class and to advanced standing.
<i>September 23.</i>	<i>Tuesday.</i> Last day for registration of un- dergraduate students.
<i>September 24.</i>	<i>Wednesday.</i> FIRST SEMESTER BEGINS : 9:15 a. m.

## PRESIDENTS.

REV. EDWARD BEECHER, D.D.	-	-	-	1830-1844
REV. JULIAN M. STURTEVANT, D.D., LL.D.,	-	-	-	1844-1876
REV. EDWARD A. TANNER, D.D.,	-	-	-	1882-1892
JOHN E. BRADLEY, Ph.D., LL.D.,	-	-	-	1892-1899
REV. CLIFFORD WEBSTER BARNES, M.A.,				1900—

## ACTING PRESIDENTS.

RUFUS C. CRAMPTON, LL.D.,	-	-	-	1876-1882
MILTON E. CHURCHILL, Litt.D.,	-	-	-	1899-1900

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## TRUSTEES.

CLIFFORD W. BARNES,	-	-	-	-	Jacksonville
<i>President.</i>					
BERNARD A. ECKHART,	-	-	-	-	Chicago
<i>Eckhart &amp; Swan Milling Co.</i>					
DAVID R. FORGAN,	-	-	-	-	Chicago
<i>First National Bank.</i>					
EGBERT W. GILLETT,	-	-	-	-	Chicago
<i>Gillett's Chemical Works.</i>					
JOHN E. KEHOE,	-	-	-	-	Chicago
<i>Assistant City Attorney.</i>					
CHARLES E. RIDGELY,	-	-	-	-	Springfield
<i>Ridgely National Bank.</i>					
FRANK W. TRACY,	-	-	-	-	Springfield
<i>First National Bank.</i>					
RICHARD YATES,	-	-	-	-	Springfield
<i>Governor's Mansion.</i>					
REV. SAMUEL H. DANA,	-	-	-	-	Quincy
<i>Congregational Church.</i>					
GEORGE H. WILSON,	-	-	-	-	Quincy
<i>Wilson &amp; Wall, Attorneys.</i>					
JUDGE CHARLES A. BARNES,	-	-	-	-	Jacksonville
<i>Room 2, Duncan Building.</i>					

HARRY M. CAPPS,	- - - - -	- Jacksonville
<i>J. Capps &amp; Sons, Ltd.</i>		
LEONARD W. CHAMBERS,	- - - - -	- Jacksonville
<i>839 West State Street.</i>		
MILLARD F. DUNLAP,	- - - - -	- Jacksonville
<i>Dunlap, Russell &amp; Co., Bankers.</i>		
ROBERT M. HOCKENHULL,	- - - - -	- Jacksonville
<i>Hockenhull-Elliot Bank &amp; Trust Co.</i>		
JUDGE EDWARD P. KIRBY,	- - - - -	- Jacksonville
<i>232½ West State Street.</i>		
JULIAN P. LIPPINCOTT,	- - - - -	- Jacksonville
<i>Room 3, Ayers Bank Building.</i>		
DR. THOMAS J. PITNER,	- - - - -	- Jacksonville
<i>215 West College Ave.</i>		
CHARLES S. RANNELLS,	- - - - -	- Jacksonville
<i>President Matthews Woven Wire Fence Co.</i>		
JULIUS E. STRAWN,	- - - - -	- Jacksonville
<i>331 West College Ave.</i>		

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## COMMITTEES.

*Endowment Committee*—D. R. FORGAN, Chairman.

Messrs. E. W. GILLETT, B. A. ECKHART, RICHARD YATES, CHAS. RIDGELY, FRANK W. TRACY, E. P. KIRBY, T. J. PITNER, JULIUS E. STRAWN.

*Finance Committee*—M. F. DUNLAP, Chairman.

Messrs. R. M. HOCKENHULL, L. W. CHAMBERS, C. A. BARNES.

*Buildings and Grounds*—J. P. LIPPINCOTT, Chairman.

Messrs. C. S. RANNELLS, S. A. DANA.

*Catalogue*—H. M. CAPPS, Chairman.

Messrs. J. E. KEHOE, G. H. WILSON.



# FACULTY AND OFFICERS.

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CLIFFORD WEBSTER BARNES, President

*Professor of Sociology*

A. B., Yale University, 1889; D. B. *ibid.*, 1892; A. M., the University of Chicago, 1893; Fellow in Church History, *ibid* 1892-3; Resident worker Hull-House Social Settlement, 1893-4; Pastor, Chicago, 1894-7; Student Mansfield College, Oxford, England, 1898; Director of Social and Religious Work for students, Paris, France, 1898-9; Instructor in Sociology, and Director of Social Settlement work, University of Chicago, 1899-1900.

HIRAM KINNAIRD JONES,

*Professor of Philosophy Emeritus*

A. B., Illinois College, 1844; A. M., 1847; M. D., 1846; LL.D., 1878; Founder Concord School of Philosophy, 1879; Lecturer on Greek Philosophy in same, 1879-89; President American Akademie, 1878; Professor of Philosophy in Illinois College, 1886-1900.

HARVEY WILLIAM MILLIGAN,

*Professor of History and English Literature Emeritus*

A. B., Williams College, 1853; A. M., 1856; M. D. University of Pennsylvania, 1862; Instructor State Institution for Deaf Mutes, Pennsylvania, 1856-65; Principal of same in Wisconsin, 1865-69; Instructor in same in Illinois, 1869-82; Professor of History and English Literature in Illinois College, 1882-1898.

JACOB ANDREW ZELLER,

*Professor of Pedagogy*

A. B., Miami University, 1856; A. M., 1860; B. L., Cincinnati Law School, 1860; L. H. D., Blackburn

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NOTE—With the exception of the President the names in each group are arranged in the order of collegiate seniority.

University, 1900; Principal High School, Evansville, Ind., 1870-81; Superintendent of Schools, Richmond, Ind., 1881-84; Principal High School, Lafayette, Ind., 1885-94; Principal of Whipple Academy, 1894-1900; Professor of Pedagogy in Illinois College, 1894-1901.

MILTON ERASTUS CHURCHILL, Dean

*Collins Professor of Greek*

A. B., Knox College, 1877; A. M., 1880; B. D., Yale University, 1883; Litt. D., Knox College, 1900; Instructor in Latin and Greek, Knox College, 1878-80, and 1885-87; Principal Emerson Institute, Mobile, 1883-85; Professor of Latin, Blackburn University, 1887-91; Student Leipsic, Germany, 1891; Professor of Greek and German in Illinois College from 1891.

TRUMAN POST CARTER,

*Hitchcock Professor of Natural Sciences*

A. B., Illinois College, 1885; A. M., 1888; B. S., University of Illinois, 1888; Graduate Student, Cornell University, 1889-90; Instructor in Science in Illinois College, 1891-94; Professor of Natural Sciences, 1894-1901.

JOHN BISHOP TINGLE,

*Professor of Chemistry*

Owens College, Manchester, 1884-1887; Ph. D., Munich, 1889; Demonstrator in Chemistry, Heriot-Watt College, Edinburgh, 1889-90; Research Assistant of Organic Chemistry, Royal College of Science, London, 1890; Lecturer in Chemistry, Merchant Venturers' Technical College, Bristol, 1890-92; Lecturer in Chemistry, Gordon's College, Aberdeen, 1892-96; Organic Research Laboratory, University of Pennsylvania, 1897; Instructor of Chemistry, Lewis Institute, Chicago, 1897-1900.

FREDERICK WARREN SANFORD,  
*Professor of Latin*

B. S. Illinois College, 1890; A. B. *ibid.*, 1894; Teacher in Public Schools, 1890-91, Instructor in Latin, Jacksonville High School, 1891-92; Instructor in Latin and Greek, Whipple Academy, 1892-94; Graduate Student University of Chicago, 1894-95; Instructor in Latin, Illinois College, 1895-97; Professor of Latin, Illinois College from 1897.

JOHN GRIFFITH AMES, Jr.,  
*Professor of English*

A. B., Johns Hopkins University, 1894; B. Litt., Oxford University, England, 1899; Graduate student, Harvard University, 1894-95; Instructor in English, Kenyon College, Gambier, Ohio, 1895-96; Professor of English, *ibid.*, 1896-97; Assistant Professor of English, Illinois College, 1900-1901.

JAMES BERTRAM OVERTON,  
*Professor of Biology*

Ph. B., University of Michigan, 1894; Ph. D., University of Chicago, 1901; Assistant Principal of the Public High School, Black River Falls, Wisconsin, 1894-95; Senior Master in Mathematics, St. John's Military Academy, Delafield, Wisconsin, 1895-98; Graduate Student in Botany and Zoology, University of Chicago, 1898-1900; Fellow in Botany, University of Chicago, 1900-1901; Graduate Assistant in Botany, University of Chicago, Summer Quarter, 1901.

FRANK MARION MORRISON,  
*Assistant Professor of Mathematics*

A. B., University of Michigan, 1892; Instructor in Mathematics, Elkhart, Ind., High School, 1892-4; Instructor in Mathematics, Sioux City, Iowa, High School, 1894-95; Graduate Student in Mathematics,

University of Chicago, 1896-99; Vice President and Instructor in Mathematics, Grand Prairie Seminary, Onarga, Ill., 1899-1900; Instructor in Mathematics, Illinois College, 1900-1901.

JAMES WILLIAM PUTNAM, Registrar,

*Assistant Professor of History and Political Science*

B. S., Illinois College, 1894; Ph. B., *ibid*, 1897; A. M., *ibid*, 1898; Graduate student, University of Chicago, 1895, 1897 and 1900; Instructor in History and German in Whipple Academy 1895-98; Instructor in History and Political Science in Illinois College 1898-1901.

IRVING ELGAR MILLER,

*Assistant Professor of Philosophy*

A. B., University of Rochester, 1894; A. M., *ibid*, 1898; Principal of Union School, Ontario, N. Y., 1894-95; Professor of Mathematics, Colby Academy, New London, N. H., 1895-99; Graduate student in Philosophy, University of Chicago, 1899-1901; Fellow in Philosophy, *ibid*, 1900-1901.

JOSEPH HALL HART,

*Assistant Professor of Physics*

A. B., Yale University, 1898; Ph. D., Yale University, 1900; Instructor in Physics, Yale University, 1899-1900; University of Chicago, 1900-1901.

RUPERT FRANZ ASPLUND,

*Principal of Whipple Academy; Instructor in Latin*

A. B., Illinois College, 1896; Instructor in Whipple Academy, 1898-1900.



LEVI STEVENS DOANE, Bursar,

*Instructor in Chemistry*

B. S., Illinois College, 1895; Instructor in Chemistry,  
Illinois College, 1900-1901.

MARTIN HENRY HAERTEL,

*Instructor in German and French*

B. S., St. Charles College, 1895; Teacher in Public  
Schools, St. Charles, Mo., 1895-98; Instructor in German  
and French, Red Wing Lutheran Seminary, Red  
Wing, Minn., 1898-1900; Graduate work in German,  
Philology and Literature, University of Chicago,  
1900-1901; Ph. B., University of Chicago, 1901.

WILLIAM MATHER LEWIS,

*Instructor in Oratory*

A. B., Lake Forest University, 1900; Student Cumnock  
School of Oratory, 1899-1900; Fellow in English, Illinois  
College, 1900-1901.

FREDERICK SMITH HAYDEN,

*Lecturer on Theism and Evidences of Christianity*

A. B. Yale University, 1869; D. B., *ibid*, 1874; D. D.,  
Illinois College, 1891,

FRANK PARSONS NORBURY,

*Lecturer on Psycho-Physics*

M. D., Long Island College Hospital, 1888; Resident  
Physician, Pennsylvania Institution for Feeble Minded  
Children, 1888; Assistant Physician Illinois Central  
Hospital for the Insane, 1888-93; Lecturer on Nervous  
and Mental Diseases, Keokuk Medical College, 1893;  
Professor of Nervous and Mental Diseases, St. Louis  
College of Physicians and Surgeons from 1894; Lecturer  
on Cranio-Cerebral Anatomy and Surgery in Woman's

Medical College, St. Louis, 1894; Associate Editor of the Medical Fortnightly of St. Louis; Lecturer on Psycho-Physics in Illinois College from 1894.

RUFUS CARY NASH,  
*Director of Physical Culture*  
B. S., Knox College, 1900.

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JULIAN P. LIPPINCOTT,  
*Secretary of the Trustees*

JOHN A. AYERS  
*Treasurer*

# GENERAL INFORMATION.

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## HISTORICAL SKETCH.

Illinois College, the first institution in the history of the state to graduate a collegiate class, was founded in 1829 through the happy combination of two independent forces. One force, inspired by the missionary zeal of Rev. John M. Ellis of the Presbyterian Church, was composed largely of residents of Jacksonville who were eager to give the youth of their state a liberal education. The other, an Eastern organization known as the "Yale Band," consisted of seven men from Yale College who had pledged themselves to the cause of Christian education in the Home Mission fields of the growing west.

As early as 1827 an attempt was made to establish a college at some point within five miles of Jacksonville, and in 1828 the outline of a plan was prepared in which certain prominent citizens of Morgan, Green, Bond, Montgomery, Sangamon and Madison counties agreed that if proper support were given, they would do everything possible "to build an institution worthy the patronage of an enlightened and free people, and to secure the accomplishment of their best wishes for the education of our youth, the hope and glory of the land." The "Yale Band," composed of Theron Baldwin, John F. Brooks, Mason Grosvenor, Elisha Jenney, William Kirby, Julian M. Sturtevant, and Asa Turner, brought with them not only Christian zeal and cultivated talents, but also a

contribution made by friends in the east amounting to \$10,000, with which to start the enterprise.

Before the close of 1829 a complete organization had been perfected, Beecher Hall, the oldest college building in the state, had been erected, and the first instructor, Julian M. Sturtevant, had entered upon his duties at Illinois College. In December 1830, Rev. Edward Beecher, himself a graduate of Yale, and elder brother of Henry Ward Beecher, was called to the presidency. Feeling deeply the great possibilities of the work, he gave up his large church on Boston Commons and for fifteen years did splendid service in developing the resources and strengthening the foundations of the new institution.

The strong prejudice against "Yankees" which then existed in Illinois, together with a fear of a theological bias in education, made it impossible at first to obtain a charter from the legislature, and it was not until 1835 that the College succeeded, by means of an "omnibus bill," in gaining legal recognition. It was in this year also that the first class was graduated, one of the members being Richard Yates, well known as the war governor of Illinois and afterwards as United States senator.

In 1844 Dr. Beecher retired from the presidency and was succeeded by Dr. Julian M. Sturtevant whose memorable term of office continued for thirty-two years. Prof. Rufus C. Crampton filled the position of acting president from 1876 to 1882, when Rev. Edward A. Tanner was elected president, holding the office until his death in 1892. His successor was Dr. John E. Bradley who resigned January, 1900,

after eight years of service. Prof. M. E. Churchill performed the duties of acting president until June 1900, when Rev. Clifford W. Barnes was elected president.

#### ORGANIZATION AND WORK.

By the Charter of Illinois College the general government and administration of the institution are vested in its Board of Trustees. The immediate direction of the work is vested in the Faculty, who are empowered to determine the requirements for admission to the college, the standard of attainment in the several classes, the subjects and method of study, and to make such rules, subject to the judgement of the trustees, as may be deemed best for the guidance of the institution and the advancement of the work.

It is the aim of Illinois College to extend to young men the benefits of a liberal education of a most advanced standard in the midst of a wholesome Christian atmosphere. The courses of instruction are so arranged as to give the best preparation for professional study and for active life, and at the same time afford the broadest general culture. The instructors are specialists in their various departments, and the class rooms and laboratories are supplied with good appliances for illustration and experiment. The wide range of elective studies enables students to carry their work in any chosen department to a high degree of perfection, while the group system prevents a wasteful scattering of efforts.

#### LOCATION AND BUILDINGS.

Jacksonville, with a population of 16,000, is one

of the oldest and most beautiful towns in Illinois. It is located about 200 miles south-west of Chicago and 30 miles west of Springfield, at the intersection of the Chicago and Alton, the Wabash, the Chicago, Peoria and St. Louis, and the Jacksonville and St. Louis railroads. Its preeminence as an educational center in early days led many cultured families to make their homes in its neighborhood, and in these later years the development of the schools and seminaries has tended to give the place a distinctive air of refinement. Its streets are well paved, lighted by electricity, and everywhere lined by arching elms, while its healthful climate and high moral tone render it a most favorable location for a Christian College.

The college campus occupies a partially wooded tract of land, some twenty acres in size, beautifully located on a slight elevation known as College Hill.

The buildings of the College are Sturtevant Hall, in which are recitation rooms, laboratories and geological collections; Crampton Hall, a large dormitory building; Beecher Hall, containing several literary society rooms; Whipple Hall, containing several recitation rooms and a large study hall for the preparatory department; College Hall, devoted to the use of the students boarding club; and a Gymnasium. These buildings are all conveniently arranged, heated by steam and lighted by gas. In addition there is the Jones Memorial building, a new and modern structure, the gift of Hiram K. Jones, of Jacksonville, erected in memory of his wife, Elizabeth Orr Jones. It is con-

structed of brick and terra cotta, finely finished, lighted by electricity, and equipped with the most approved heating and ventilating systems and other modern conveniences. It contains the chapel, library, reading rooms, Y. M. C. A. rooms, president's and dean's offices, and a number of class rooms.



# REQUIREMENTS FOR ADMISSION

## GENERAL STATEMENT.

All candidates for admission to college must offer satisfactory testimonials of good moral character. Those who have been members of other colleges must present certificates of honorable dismissal.

Candidates for admission to the Freshman class will be examined on twelve units of preparatory work. A unit is the amount of work usually accomplished in a subject by one daily recitation during one school year. In every case, however, the time assigned is simply for convenience and the work outlined must be fully completed whether the time taken be more or less than that in the estimate.

The subjects which may be offered for admission and the number of units in each are:

English	- - - - -	2 units.
Mathematics	- - - - -	3 units.
Foreign Language	- -	2 units.
History	- - - - -	1 unit.
Physics	- - - - -	1 unit.
Elective	- - - - -	3 units.

The elective units may be taken from the following:

Latin	- - - - -	2, 3, or 4 units.
Greek	- - - - -	1 or 2 units.
German	- - - - -	1 or 2 units.
History	- - - - -	1 unit.
Biology	- - - - -	1 unit.
Chemistry	- - - - -	1 unit.

Candidates who intend to take group I, II, or III

must offer four units of Latin. Those who intend to take group IV must offer three units of foreign language at least two of which must be Latin. Those who intend to take group V or VI must offer two units of either Latin or German.

#### DETAILS OF SUBJECTS.

The following statements indicate the ground expected to be covered in the study of the various subjects accepted for admission.

##### ENGLISH.

*Composition and Rhetoric.* English Grammar, with special attention to the correction and analysis of sentences; Whitney, Lockwood, or an equivalent. In Rhetoric and Composition, any high school Rhetoric such as Hill, Kellogg, or Williams will be sufficient. Each candidate will be expected to write a short theme on some subject chosen from the books mentioned below. The treatment of the topic is designed to test the candidate's ability to express himself simply, clearly and accurately. No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, or division into paragraphs.

*Literature.* (a) A careful knowledge of the following works, or their equivalent. The examination will be upon subject matter, form, and structure. Shakespeare's *Macbeth*; Milton's *Comus*, *Lycidas*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

(b) A general knowledge of the subject matter of the Sir Roger De Coverly Papers in the *Spectator*;

Pope's Iliad, books I, VI, XXII, and XXIV; Goldsmith's Vicar of Wakefield; Scott's Ivanhoe; Cooper's Last of the Mohicans; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

Attention is called to the fact that the right is reserved to regard all examination papers, upon whatever subject, as part of the English examination.

#### MATHEMATICS.

*Algebra.* Fundamental operations, factoring, highest common factor, lowest common multiple, fractions, simple equations of the first degree, inequalities, indeterminate equations, theory of exponents, square roots, radicals including imaginaries, quadratic equations, special forms of higher equations, ratio and proportion, arithmetical and geometrical series, binomial theorem for any rational exponent.

Accuracy, rapidity, and freedom from working by rule is desired.

*Geometry.* Plane, solid, and spherical geometry. A thorough understanding of the fundamental theorems, ability to solve and prove original exercises and theorems, accuracy and acuteness in thinking rather than mere geometrical facts are desired.

#### FOREIGN LANGUAGES.

*Latin.* (a) A standard beginner's book in Latin and four books of Caesar. Latin composition.

(b) Six orations of Cicero. Latin composition.

(c) Fifteen hundred lines of Ovid and four thousand lines of Vergil.

The work indicated under (a) may be offered as

two units, (a) and either (b) or (c) as three units, and (a), (b), and (c) as four units.

*Greek.* (a) White's First Greek Book, or equivalent.

(b) Xenophon's Anabasis, Books I, II, and III. Jones' Greek Prose Composition.

*German.* (a) Pronunciation, inflection of the parts of speech, the elementary rules of syntax and word order, and seventy-five to one hundred pages of graduated text.

(b) The reading of from one hundred and fifty to two hundred pages of literature in the form of easy stories and plays, translation into German of matter based upon the works read, and continued grammatical drill.

#### HISTORY.

*Greek and Roman History.* Greek History to the death of Alexander and Roman History to the fall of the Western Empire. Botsford's History of Greece and Allen's Short History of the Roman People or equivalents, with supplementary reading.

*English and American History.* English History, with due reference to social and political development, and American History with the elements of Civil Government. Montgomery's English History and McLaughlin's History of the American Nation, or equivalents, with supplementary reading.

Either of the two above divisions may be offered as the one unit in History required of all candidates for admission.

#### SCIENCES.

*Physics.* The elements of physical science as presented in such text books as Gage's or Carhart

and Chute's Elements of Physics. The candidate must have had laboratory practice equivalent to that described in the laboratory text-book of Allen or Chute.

*Biology.* One year's study of typical animals and plants by the laboratory method, covering the facts of morphology and physiology. This requirement may be met by a course such as is laid down in Jordan and Kellogg's Animal Life and Bergen's Elements of Botany.

Accurate notes and drawings should be made by the student.

*Chemistry.* Acquaintance by laboratory work with the properties of substances common to Chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry.

The laboratory note-book must be presented at the time of examination.

#### ADVANCED STANDING.

Students who come from other colleges of recognized rank may receive such advanced standing as their certificates from these institutions may warrant. Such certificates must contain definite statements of the amount and character of work done, both preparatory and collegiate. If these credentials are satisfactory to the matriculation committee, the student will be given a corresponding amount of credit on the college records.

## ADMISSION BY CERTIFICATE.

Under certain conditions specified below, certificates of preparatory schools may be accepted in place of examination for admission. The privilege of sending students by certificate may be granted to a school which requests it, provided the faculty has such an acquaintance with the work of the school as will warrant granting the request.

Certificates must be made out on blanks furnished by the college, and in accordance with instructions contained therein. They must contain an explicit statement of the work done by the candidate and the time devoted to it. If the work covered by the certificates is materially less than the amount required for admission, or if the time devoted to a given subject is inadequate, the certificate will not be accepted for the subject in which the deficiency occurs, but it will remain valid for the other subjects.

## MATRICULATION.

All candidates for admission must present themselves before the matriculation committee not later than 10 a. m. of the first Tuesday of the semester. Those presenting satisfactory certificates from secondary schools will be granted certificates of matriculation without examination. Those without satisfactory certificates will have assigned them the subjects in which they are to be examined, and the place and time of such examinations.



# COURSES OF INSTRUCTION.

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## BIBLE STUDY.

IRVING E. MILLER, Assistant Professor.

Systematic courses in the study of the English Bible are offered each year, open to all students of the College. The purpose is to give the student a general historical knowledge of the Bible, with special emphasis on the life and teachings of Christ.

- 1—*Beginnings of Hebrew History.* 1 hour  
Entire year.

Study of the ancient civilizations which form the background of Jewish life; interpretation of the testimony furnished by the monuments and other records, in their relation to the Hebrew people.

- 2—*Hebrew History and Literature.* 1 hour  
Entire Year.

Political, social and religious life of the people; their settlement in Canaan: division of the kingdom; connection with the great political movements between 937 and 586 B. C.; work of the Hebrew prophets.

- 3—*New Testament History and Literature.* 1 hour  
Entire Year.

Study of Roman and Jewish life about the time of Christ; laws and customs which form a background to the New Testament teachings; literature bearing on Jewish and Christian life.

- 4—*Life of Christ.* 1 hour  
Entire Year.

Study of Christ's life as revealed in the four gospels;



His teachings; the organization and development of His church.

## BIOLOGY.

J. B. OVERTON, Professor.

The courses in Biology are designed to give a general knowledge of the fundamental facts and principles of organic life, and to make clear the subject-matter of these sciences as far as possible. They are intended to meet the needs of a general education, and also to serve as a preparation for those students who are shaping their studies with a view to future work in medicine.

### 1—*General Morphology.*

5 hours

First Semester.

This course is intended to illustrate the general principles of Biology as well as to serve as an introduction to the study of Botany. The work deals with general morphology and outlines of classification. Selected types of Thallophytes, Bryophytes, Pteridophytes, and Spermatophytes are chosen, special emphasis being placed on evolution of sex, lines of development, alternation of generations, etc.

Two lectures or recitations with nine hours laboratory work per week.

Text: Coulter, Plant Structures.

### 2—*General Morphology.*

5 hours

Second Semester.

This course aims to study representative types of animals, emphasis being placed on invertebrate morphology, anatomy, classification, distribution, and habits. The course endeavors to meet the needs of a

general knowledge of zoology and to furnish the basis of more advanced work. The course covers about the same field in the animal kingdom as is covered in the plant kingdom by course 1. Types of Protozoa, Coelenterata, Platyhelminthes, Nematoda, Echinodermata, Mollusca, Annelida, and Arthropoda are studied.

Two recitations and nine hours laboratory work per week.

Text: Thompson, Outlines of Zoology.

### 3—*Plant Physiology.*

4 hours

First Semester.

This course presents the more general physical and chemical principles of plant functions, such as absorption, transpiration, photosynthesis, respiration and growth. An elementary knowledge at least of Physics and Chemistry is a necessary antecedent to this course. The laboratory work is largely experimental.

Two lectures or recitations and six hours laboratory work per week.

Prerequisite: Courses 1 and 2

Text: Green, Plant Physiology.

### 4—*General Ecology.*

4 hours

Second Semester.

This course treats of plants in relation to their environment. A study of plant organs is made in relation to their nutritive, reproductive and protective functions. As much time also is given to the microscopic study of the tissue adapted for absorption, conduction, synthesis, transpiration, etc. as the course permits. A study of the various plant societies, and the factors which influence their distribution, migration, etc. is made in the field.

Two recitations and six hours laboratory work per week.

Text: Coulter, Plant Relations.

5—*General Histology.*

5 hours

First Semester.

This course is intended to teach some of the methods of modern technique, as well as to aid the student in a more detailed study of structures. The course develops the more general methods and principles of preparing materials for microscopical examination, and includes killing, fixing, imbedding, sectioning, staining, mounting, and drawing. The course begins with a study of the cell, its variations in form, arrangement and structure. A study of the fundamental tissues is then taken up.

Two recitations or lectures and nine hours laboratory work per week.

Prerequisite: Courses 1 and 2.

Text: Piersol, Normal Histology.

6—*General Histology.*

5 hours

Second Semester.

This course is a continuation of course 5, following the same general plan of work. The changes taking place in the elemental tissues are studied and certain tissues used as types.

Two recitations and nine hours laboratory work per week.

Prerequisite: Course 5.

Text: Piersol, Normal Histology.

## CHEMISTRY.

## J. BISHOP TINGLE, Professor.

The work in Chemistry is intended to develop the student's reasoning and observational powers in order to enable him to regard his surroundings in a rational and scientific manner. In so far it is simply a mental dis-

cipline. Its secondary aim is to impart a knowledge of the fundamental principles of the science, and to attain, as far as possible, a familiarity with the properties of the more important substances and facility in their manipulation. Such work will necessarily be of great benefit, both directly and indirectly, to students who intend subsequently to become engineers, physicians, lawyers, agriculturists, or to follow pure or applied chemistry or biology.

1—*General Chemistry.*

5 hours

First Semester.

Physical and Chemical change. States of matter. Elements and compounds. Study of the following elements and of their more important derivatives: oxygen, hydrogen, nitrogen, carbon, fluorine, chlorine, bromine, iodine, sulphur, phosphorus, silicon, boron. The simpler laws of chemical combination. Special attention is given to the subjects of the atmosphere and water. A number of easy numerical problems will be set for solution.

Texts: Richters, Inorganic Chemistry, Trans. by E. F. Smith; Waddell, Arithmetic of Chemistry.

2—*General Chemistry.*

5 hours

Second Semester.

Continuation of course 1.

Study of the following metals and of their more important compounds: Sodium, potassium, silver, copper, magnesium, calcium, strontium, barium, zinc, cadmium, mercury, aluminium, tin, lead, iron, arsenic, antimony, bismuth, manganese, chromium, iron, nickel, cobalt, gold. The rare elements and the metals of the platinum group are also considered.

Stress is laid on those substances of particular importance in technology, medicine, and the arts, and the learning of recent theories is indicated in an elementary manner.

Text: Vide course 1.

### 3—*Qualitative Analysis.*

5 hours

First semester.

Tests are made by each student for the recognition and separation of the metals mentioned in 2 and of the radicles derived from the elements enumerated in 1. After the examination of easy mixtures, the analysis of more complex substances is made, including that of minerals and alloys of industrial importance. Lectures are given on the principles and theory of analysis.

Text: Jones, Junior Course of Practical Chemistry.

Prerequisite: Courses 1 and 2.

### 4—*Qualitative Analysis.*

5 hours

Second Semester.

Continuation of course 3.

The work includes the analysis of plant ashes, tests for organic acids and bases, the detection of other organic substances of special interest to medical students, and the examination of food, etc., for poison. Selected parts of chemical theory are studied.

Text: Vide course 3.

### 5—*Quantitative Analysis.*

5 hours

First Semester.

Operations of weighing and measuring. The student purifies and analyses a few simple salts so as to be familiar with the more usual conditions under which gravimetric analyses are performed. Volu-

metric methods are also practiced as far as time permits. The studies in chemical theory are continued from course 4.

Prerequisite: Course 4.

Texts: Jones, Junior Course of Practical Chemistry; Van Deventer, Physical Chemistry.

#### 6—*Quantitative Analysis.*

5 hours

Second Semester.

Continuation of course 5.

After completion of the volumetric work, substances of greater complexity are examined including food, water, and technical products. The work is arranged as far as possible to satisfy each student's special interest. The student is called upon to present to the class the results of his particular study of some topic which he has selected with the advice of the professor.

Text: Clowes and Colman, Quantitative Analysis.

#### 7—*Organic Chemistry.*

5 hours

Composition, sources and general properties of organic compounds. Hydrocarbons of the methane, ethylene, and acetylene series. Substitution and oxidation products. Alcohols, aldehydes, acids. Fats, soaps and carbohydrates. Compounds of carbons containing elements other than oxygen, hydrogen and the haloids. Methods of determining molecular weights. General theoretical relationships.

Prerequisite: Course 4.

Text: Perlin and Kipping, Organic Chemistry.

#### 8—*Organic Chemistry.*

5 hours

Second Semester.

Continuation of course 7.

Hydrocarbons with closed chains. Benzene and its constitution. The chief classes of benzene derivations

with special reference to those of technical importance. The simpler dyes. Naphthalene and more complex compounds. Alkaloids. Organic synthesis. Correlation of the properties and constitution of organic compounds. General theory.

Text: Vide 7.

## ENGLISH.

J. GRIFFITH AMES, Professor.

WM. M. LEWIS, Instructor.

The work in this department is arranged upon a plan that first gives the student a general survey of the history of English and American Literatures from their beginnings to the present day. After these preliminary courses, more definite and minute study is bestowed upon courses that center in the most significant periods of those histories. In addition to these, courses are given in Rhetoric and Composition, in Declamation, in Oratory and in Dramatics.

### 1—*Rhetoric.*

2 hours

First Semester.

MR. LEWIS.

Practical work in the study of Rhetoric by the application of its principles to the writing of themes in Narration, Description and Exposition. Criticism of short themes in the classroom. Frequent consultations.

Text: A. S. Hill, Principles of Rhetoric.

### 2—*American Literature.*

2 hours

Second Semester.

PROF. AMES.

An outline course with as much classroom and supplementary reading as possible. A study of the chief au-



thors from the Colonial Period to the present day with especial attention to Longfellow, Hawthorne, Poe, Emerson and Holmes. Frequent written reports. Recitations and lectures.

Text: Pancoast, Introduction to American Literature.

3 and 4—*History of English Literature.* 3 hours  
Entire year.

PROF. AMES.

An outline course with as much supplementary reading as possible. The most important authors from the Anglo-Saxon Period to the present day. The various periods and influences are discussed in connection with the works of writers typical of each period. The aim of the course is to awaken in the student an interest in English Literature, and to direct him in his search for what is best and noblest in that literature. Fortnightly written reports.

Text: Pancoast, Introduction to English Literature.

5 and 6—*Declamation.* 1 hour  
Entire year.

MR. LEWIS.

Physical culture and voice training with critical study of English pronunciation. Drill in reading and declamation.

7—*English and Scotch Popular Ballads.* 3 hours  
First Semester.

PROF. AMES.

Extensive reading in the old ballads of England and Scotland. Lectures on the origin, form, source, style, authorship, distribution, etc. Fortnightly reports.

Text: F. B. Gummore, English and Scotch Ballads.

8—*Sixteenth Century Literature.*

3 hours

Second Semester.

PROF. AMES.

Lectures on the history of English Literature from the Revival of learning to Milton, exclusive of the Drama. The chief works of Wyatt, Surrey, Spenser, Sidney, Hooker, Bacon and Lyly, are read. Supplementary reading. Fortnightly written reports.

Reference Book: Saintsbury, Elizabethan Literature.

9—*Composition.*

2 hours

First Semester.

PROF. AMES.

Constant drill in written expression based on a study of American prose authors. (Franklin, Irving. Hawthorne, and Poe.) At first very short themes are written daily, then tri-weekly, and later gradually lengthened and required less frequently. Lectures on the principles of composition. Study of styles. Criticism of themes in the classroom. Weekly individual consultations.

Text: Genung, Handbook of Rhetorical Analysis.

10—*Composition.*

2 hours

Second Semester.

PROF. AMES.

Advanced work. Themes are less frequent and longer than in course 9. Weekly exercises in popular and literary subjects. Cultivation of individual style. Study of the short story. Lectures by the instructor. Consultations.

Prerequisite: Courses 1 and 9.

Reference Book: Wendell, English Composition.

11—*Eighteenth Century Poetry.*

3 hours

First Semester.

PROF. AMES.

Lectures, biographical and critical. The first few weeks are devoted to the study of Dryden and Pope and to the growth and characteristics of the Classical School. The beginnings of the Romantic Movement in poetry. Extensive supplementary reading. Dryden, Gay, Pope, Prior, Thompson, Collins, Young, Gray, Goldsmith, Beattie and Cowper are the poets studied. Fortnightly written reports.

Reference books: Gosse, Eighteenth Century Literature; Beers, English Romanticism in the XVIII Century; Phelps, Beginnings of the English Romantic Movement; Garnett, Age of Dryden; Dennis, Age of Pope.

12—*Nineteenth Century Poetry.*

3 hours

Second Semester.

PROF. AMES.

A continuation of course 11. The development of the Romantic Movement and the Poetry of Revolt is further traced through the poetry of Burns, Blake, Scott, Coleridge, Wordsworth, Byron, Shelley, Keats and Tennyson. The poetry of Arnold, Morris, Rossetti, and Swinburne is also studied if time permits. Lectures by the instructor. Weekly written reports.

Prerequisite: Course 11.

Additional reference books: Saintsbury, Nineteenth Century Literature; Herford, Age of Wordsworth; Walker, Age of Tennyson.

13—*Oratory.*

2 hours

First Semester.

MR. LEWIS.

Principles of Oratory. Critical Study and analysis of

standard American orations together with their delivery.

Prerequisite: Courses 5 and 6.

14—*Oratory.*

2 hours.

Second Semester.

MR. LEWIS.

Continuation of course 13. Preparation and delivery of original deliberative and demonstrative orations. Study in debate with delivery of arguments and speeches.

Text: Baker, *The Principles of Argumentation.*

15 and 16—*The English Novel.*

5 hours

Entire Year.

PROF. AMES.

The history and development of English Prose Fiction from 1485 to the present day. Brief outline of Continental Prose Fiction before 1485. Extensive reading of the best works of the masters of English novel writing. Study of styles, methods, movements and schools. Weekly written reports. Lectures by the instructor.

Reference books: Tuckerman, *History of English Prose Fiction*; Wm. Forsyth, *Novels and Novelists of the XVIII Century*; Dunlap, *History of Fiction*; Raleigh, *The English Novel.*

17—*Chaucer.*

3 hours

First Semester.

PROF. AMES.

A study of the literature of the Fourteenth Century. The Renaissance. Chaucer's Prologue and certain of the *Canterbury Tales*. Linguistic as well as literary study.

Text: W. W. Skeat, *The Student's Chaucer*.  
Omitted in 1901-2.

18—*Middle English*.

3 hours

First Semester.

PROF. AMES.

A literary as well as linguistic study of prose and poetry from the late Anglo-Saxon of the 12th Century to Chaucer and his contemporaries of the 14th. The order of reading is from the later and consequently easier to the earlier and more difficult.

Prerequisite: Course 17.

Text: Morris and Skeat, *Specimens*.

Omitted in 1901-2.

19—*Pre-Shakespearean Drama*.

2 hours

First Semester.

PROF. AMES.

A study of the origin, structure and evolution of the English Drama from the Mysteries, Miracles, Moralities and Interludes, through Roister Doister, King Johan, and Gorboduc, Peele, Nash, Lyly, Kyd, and Marlow, to Shakespeare. Fortnightly written reports. Lectures by the instructor.

Text: Manley, *Specimens of Pre-Shakespearean Drama*. 2 vols.

20—*Shakespeare*.

2 hours

Second Semester.

PROF. AMES.

Critical, textual and literary study of selected plays. 2nd Henry IV, Twelfth Night, Julius Caesar, Lear, Hamlet, The Tempest. Supplementary reading, Lectures on the life, times, and genius of Shakespeare.

Text: Rolfe's edition of Shakespeare's Plays.

21 and 22—*Anglo-Saxon*.

2 hours

Entire Year.

PROF. AMES.

Elementary study of the prose and early poetry, with much attention to the literary as well as linguistic side of the subject. Anglo-Saxon grammar. During the second half of the year Anglo-Saxon versification, scansion, etc. West Saxon prose selections. Poetry; The Battle of Maldon, The Wanderer, The Battle of Brunanburh, and parts of the Phoenix.

Text: Bright, Anglo-Saxon Reader; Cooke, Old English Grammar.

23—*Dramatics*.

1 hour

First Semester.

MR. LEWIS.

Studies in simple impersonation. Character Studies in Shakespeare.

Prerequisite: Courses 5, 6, 13, 14.

Text: Woodbridge, The Drama; Its Law and Technique.

24—*Dramatics*.

1 hour

Second Semester.

MR. LEWIS.

Continuation of Course 23. Practical drill in presentation of scenes from the modern drama.

## GERMAN AND FRENCH.

MARTIN H. HAERTEL, Instructor.

The instruction in this department is designed to secure correctness of pronunciation and a fair degree of fluency in the speaking of German and French, a

thorough knowledge of the structure of the languages and an introduction to their literature. German and French are, from the beginning of the course, the language of the classroom.

#### GERMAN.

### 1—*Elementary.*

5 hours

#### First Semester.

The work of this semester is based largely upon Thomas' Practical German Grammar. Accompanying the study of forms and syntax is daily practice in oral and written translation from English into German. The reading of simple selections from Hewitt's Reader is introduced very early in the course, together with the memorizing of short lyrics.

Text: Thomas, Practical German Grammar; Hewitt, German Reader.

### 2—*Elementary.*

5 hours

#### Second Semester.

A continuation of course 1. With the translation of selections from modern prose, increasing stress is laid upon practice in conversation and in composition, based upon the texts read.

Prerequisite: Course 1.

Text: Thomas' Practical German Grammar; Stern's Geschichten von Rhein; Volkman's Kleine Geschichten; Seidel's Die Monate.

### 3—*Intermediate.*

5 hours

#### First Semester.

This course is devoted to the study of more difficult grammatical principles, composition, and conversation, with readings from standard authors.



Prerequisite: Course 2.

Texts: Schiller's *Der Neffe als Onkel*; Schiller's *William Tell*.

4—*Intermediate*.

5 hours

Second Semester.

A continuation of course 3 with increased emphasis upon work in composition and conversation.

Prerequisite: Course 3.

Text: Freytag's *Die Journalisten*; Benedix's *Plautus und Terrenz* and *Die Sonntagsjäger*; Freytag's *Aus dem Jahrhundert des grossen Kriegeres*.

5—*Advanced*.

3 hours

First Semester.

Less attention is given to grammar, and more to style, thought, and the history of literature. The texts are chosen for their literary value, and are to be read without translation except in the more difficult passages. Two essays will be required in the course.

Prerequisite: Course 4.

Text: Schuffel's *Der Trompeter von Sakkingen*; Lessing's *Emelia Galotti*.

6—*Advanced*.

3 hours

Second Semester.

A continuation of course 5. Two essays will be required in this course also.

Prerequisite: Course 5.

Text: Goethe's *Iphigenie*; Goethe's *Faust*, Part I.

FRENCH.

1—*Elementary*.

3 hours

First Semester.

As in the corresponding course in German, thorough drill in forms and syntax is given, with practice in oral

and written translation from English into French. A simple reader is used and is made the basis of conversational work.

Text: Chardenal, Complete French Course; French Reader; Daudet's *Trois Contes Choisis*.

2. *Elementary.* 3 hours

Second Semester.

Continuation of Course 1.

Prerequisite: Course 1.

Text: Halévy's *L'Abbé Constantin*.

3. *Intermediate.* 2 hours

First Semester.

In grammar special stress is laid on the study of the French verb and drill in the use of the subjunctive mood. One comedy and one prose work are read. Two essays are required.

Text: C. C. Clarke, Jr., *The French Subjunctive*; Labiche et Martin; *Le Voyage de M. Perrichon*; Mérimée's *Colomba*.

4. *Intermediate.* 2 hours

Second Semester.

Continuation of Course 3. Rapid reading. Composition. Drill in pronunciation. Two essays.

Text: DeVigny's *Cinq Mars*; Dumas' *Monte Cristo*.

## GREEK.

MILTON E. CHURCHILL, Professor.

The work of this department is so arranged as to include courses in the elements of the language in addition to those usually pursued in the Freshman and Sophomore years. To the three years required of clas-

sical students, are added four elective courses in the Senior year, such authors being chosen for study as will afford a fairly comprehensive view of the various forms of Greek Literature.

1—*Elementary Greek.* 5 hours

First Semester.

Drill in forms, vocabularies, and simple syntax, with constant practice in oral and written translation from Greek into English, and English into Greek.

Text: White, First Greek Book.

2—*The Anabasis.* 5 hours

Second Semester.

Books I and II, with daily exercises in composition based upon the text.

Prerequisite: Course 1.

Texts: Goodwin and White, *Anabasis*; Goodwin, *Greek Grammar*; Woodruff, *Prose Composition*.

3—*Anabasis and Iliad.* 5 hours

First Semester.

The work in the *Anabasis* is a continuation of course 2, Books III and IV being read and the composition work continued through the first half of the semester. The second half of the semester is given to the *Iliad*, with the study of Homeric forms, metrical reading and mythology.

Prerequisite: Course 2.

Texts: Seymour, *School Iliad*, Books I–VI; Gayley, *Classic Myths*.

4—*The Iliad and Odyssey.* 5 hours

Second Semester.

A continuation of course 3. The completion of six books of the *Iliad*, followed by the reading of the

Odyssey. Special stress is laid upon sight reading and rapid translation.

Prerequisite: Course 3.

Texts: Perrin, *Odyssey*, Books I-IV, College edition; Teubner Text of the *Odyssey*, Books I-XII; Keep's *Autenrieth's Homeric Dictionary*.

5—*Lysias and Xenophon*.

5 hours

First Semester.

Selected orations of Lysias, with a review of Attic forms and syntax, and exercises in composition based upon the text. Following this, selections from the *Memorabilia*.

Prerequisite: Course 4.

Texts: Morgan, *Lysias*; Winan, *Memorabilia*.

6—*Plato*.

5 hours

Second Semester.

The *Apology* and *Crito*, with selections from the *Phaedo*.

Prerequisite: Course 5.

Text: Dyer, *Apology and Crito*.

7—*The Drama*.

5 hours

First Semester.

Selected plays of Euripides and Sophocles. The origin and development of the drama; the Attic theatre, its construction, maintenance and place in Athenian life.

Prerequisite: Course 6.

8—*Drama*.

3 hours

Second Semester.

A continuation of course 7, including the works of Aeschylus and the *Clouds* of Aristophanes.

Prerequisite: Course 6.

9—*The Orators.* 2 hours

First Semester.

Demosthenes. The reading of the Oration on the Crown, with study of constitutional antiquities.

Prerequisite: Course 6.

10—*The Historians.* 2 hours

Second Semester.

Thucydides, with selections from Herodotus.

Prerequisite: Course 6.

## HISTORY AND POLITICAL SCIENCE.

J. W. PUTNAM, Assistant Professor.

In this department are included the courses in History, Politics and Economics, grouped under the two heads of History and Political Science. The method of instruction is largely by recitation, but with more frequent informal lectures as the courses advance. A minimum amount of collateral reading is required of all, the results of which are presented in written reports. In American history, each student is given some practice in working on original sources.

### HISTORY.

1—*Greek History.* 2 hours

First Semester.

The political and social history of Greece from the earliest times to the death of Alexander. Attention is given to Greek culture, institutions and inter-state relations.

2—*Roman History.*

2 hours

Second Semester.

The history of Rome from the earliest times to the fall of the Western Empire. Special attention is given to such subjects as Roman institutions; social and economic problems and attempts at their solution; the provinces and their government; the growth of Roman laws and polity; the establishment of Christianity; and the causes of the fall of the empire.

Prerequisite: Course 1.

3—*Mediæval History.*

3 hours

First Semester.

The history of Europe from the latter part of the fourth to the close of the fifteenth century. The course deals with the Migrations, the Teutonic states, the Christian church, Feudalism, the Crusades, and the Renaissance.

Prerequisite: Courses 1 and 2 or equivalent.

4—*Modern History.*

3 hours

Second Semester.

The period covered extends from the Renaissance to the beginning of the French Revolution and includes the Protestant Reformation, the Roman Catholic Reaction, the foundation and organization of modern states, the Thirty Years' War and the military and diplomatic events of the seventeenth and eighteenth centuries.

Prerequisite: Course 3.

5—*French Revolution and Napoleonic Era.*

3 hours

First Semester.

The course includes the history of all the important countries of Europe between 1789 and 1815; but particular attention is given to the revolution in France and

the consequent international complications, and to the rise and overthrow of the power of Napoleon.

Prerequisite: Course 4.

6—*Europe in the Nineteenth Century.* 3 hours  
Second Semester.

The course begins with the political re-adjustment of Europe by the Congress of Vienna and follows the struggles of the various states for more liberal governments. It closes with a study of the present political, social and industrial conditions of the leading European countries.

Prerequisite: Course 5.

7—*English History.* 3 hours  
First Semester.

The history of England from the Anglo-Saxon conquest to the accession of Henry VIII. Although the course deals primarily with the political history of the period, considerable attention is given to the constitutional, economic and intellectual development.

Not given in 1901-1902.

8—*English History.* 3 hours  
Second Semester.

A continuation of course 7 from 1509 to 1890. Particular attention is given to the English Reformation, the Stuart period, the rise of cabinet government, the political and industrial reforms, and the development of colonial government.

Not given in 1901-1902.

9—*American History.* 5 hours  
First Semester.

A rather hasty view of colonial life and government followed by a detailed study of the confederation,



the framing and adoption of the constitution, and the organization and progress of the government to 1817.

10—*American History.*

5 hours

Second Semester.

A continuation of course 9, including the growth of nationality, the development of the West, the slavery struggle in its various phases, the civil war with special reference to the constitutional changes wrought by it, and the reconstruction of the South.

Prerequisite: Course 9.

POLITICAL SCIENCE.

1—*Economics.*

3 hours

Second Semester.

The analysis of modern industrial society and the derivation of the principles of economic science as exemplified by the facts of economic history.

2—*Public Finance.*

3 hours

Second Semester.

A study of the general principles which determine public income and expenditures, with special attention to taxation in the United States.

Prerequisite: Course 1.

3—*Money and Banking.*

2 hours

First Semester.

Some of the chief topics considered are, the functions of money, the standard, laws of token money, legal tender, the history of gold and silver money in the United States, the nature and functions of a bank, discounts and deposits, note-issues, bank reserves, his-

tory of the national banking system, government issues and history of United States notes.

Prerequisite: Course I.

4—*Economic History.* 2 hours

Second Semester.

A study of the industrial history of England and the United States as a basis for a more intelligent interpretation of present economic conditions.

5—*Comparative Politics.* 3 hours

First Semester.

A study of the governments of Greece, Rome, the mediaeval European states, and the leading countries of the present time.

Not given in 1901-1902.

6—*International Law.* 3 hours

Second Semester.

This course is historical and explanatory of present international relations. It treats of the origin and development of the rules that generally govern the intercourse of modern civilized states, the important European treaties since 1648, and the subjects of present interests in American Diplomacy.

Not given in 1901-1902.

LATIN.

F. W. SANFORD, Professor.

In the work of the Freshman year the student's attention is directed to the subject of Latin style more

closely than is possible in the preparatory school. Special emphasis is placed upon accurate translation into idiomatic English. Some time is given to sight translation throughout the year and to prose composition based on Cicero and Livy.

In the work of subsequent years more attention is paid to the authors read as interpreters of Roman life in their respective periods; in connection with this work a limited amount of collateral reading in Roman history is assigned.

1—*Cicero and Livy.* 5 hours  
First Semester.

Cicero's *De Amicitia*, in connection with which Cicero's place in Roman philosophy is briefly considered; Livy, Book I, with assigned reading on the credibility of early Roman history; selections from Books XXI and XXII. Prose composition.

2—*Lyric Poetry.* 5 hours  
Second Semester.

Horace, selections from the Odes and Epodes, 12 weeks; Catallus, 6 weeks; daily practice in reading aloud. Collateral work, Preston and Dodge, *Private Life of the Romans*.

Prerequisite: Course 1.

3—*Tacitus and Suetonius.* 4 hours  
First Semester.

Tacitus, *Agricola* and selections from the *Annals*; sight translation of the *Dialogus de Oratoribus*; Suetonius, *Life of Augustus*, sight translation.

Prerequisite: Course 2.

4--*Comedy.* 4 hours

Second Semester.

Plautus, two plays; Terence, one play; sight translation of one play of each author.

Prerequisite: Course 3.

5--*Epistolary Latin.* 3 hours

First Semester.

Cicero, selected letters, studied particularly for their contribution to certain portions of Roman history in the last years of the Republic; Pliny, selected letters, studied as illustrating the life of a Roman gentleman, official and man of letters under the early Empire.

Prerequisite: Course 4.

6--*Satire.* 3 hours

Second Semester.

Selections from Horace, Juvenal and Persius; Martial, assigned reading of different epigrams to be presented in class by individual members.

Prerequisite: Course 5.

7--*Latin Prose of the Empire.* 2 hours

First Semester.

Gudeman's selections; a rapid reading course designed to give the student some acquaintance with authors not commonly read and not introduced in other courses of this department.

Prerequisite: Course 6.

8--*Latin Poetry of the Empire.* 2 hours

Second Semester.

Gudeman's selections; a rapid reading course with the same purpose as course 7.

Prerequisite: Course 6.

9—*Philosophy.* 2 hours

First Semester.

A brief study of Mayor's Ancient Philosophy followed by the reading of selections from Lucretius, Cicero and Seneca; part of the reading in the original, part in translations.

Prerequisite: Course 6.

10—*Philosophy.* 2 hours

Second Semester.

A continuation of course 9.

Prerequisite: Course 9.

11—*Roman Private Life.* 2 hours

First Semester.

A more extended treatment of the subject than is given in the Freshman year. Among the subjects considered are, the Roman family, business life, education, amusements, houses, dress, meals, baths, etc.

Prerequisite: Course 4.

12—*Epigraphy.* 2 hours

Second Semester.

An elementary course, the principles of the subject briefly considered, followed by much practice in reading inscriptions from Willmanon's *Exempla Inscriptionum Latinarum*.

Prerequisite: Course 4.

## MATHEMATICS AND ASTRONOMY.

F. M. MORRISON, Assistant Professor.

The courses in mathematics are designed to give, besides the inherent discipline, a foundation for further work in the pure science and in some applied lines, such as Engineering, Physics and Astronomy.

A sequence of three or of four years of work is offered, depending upon the line selected.

In astronomy one course of a descriptive nature is given for the general student, and a second as a foundation for work in mathematical astronomy.

I—*College Algebra.*

4 hours

One half of First Semester.

Quadratic equations, development of functions in series, partial fractions, reversion of series, binomial theorem, convergency and summation of series, logarithms, permutations and combinations, continued fractions, elementary theorems in theory of equations, elements of determinants.

Text: Taylor, College Algebra.

*Plane Trigonometry.*

4 hours

One half of First Semester.

Trigonometric functions and formulae, logarithmic functions, trigonometric equations, solution of right and oblique angled triangles, DeMoivre's theorem and trigonometric series.

Text: Crockett, Plane and Spherical Trigonometry.

2—*Analytical Geometry.* 4 hours  
Second Semester.

Continuation of course 1.

The point, right line, circle, parabola, ellipse and hyperbola in cartesian and polar coördinates; discussion of the general equation of the second degree.

Text: Tanner and Allen, *Analytical Geometry*.

3—*Differential Calculus.* 5 hours  
First Semester.

Differentiation of functions of one and several variables, development of functions, indeterminate forms, maxima and minima of one and several variables, tangents and normals, asymptotes, direction, contact and curvature, evolutes and involutes, envelopes, singular points, curve tracing.

Prerequisite: Courses 1 and 2.

Text: McMahon and Snyder, *Differential Calculus*.

4—*Integral Calculus.* 5 hours  
Second Semester.

Continuation of course 3.

Integration of elementary forms, of rational and irrational functions, of trigonometric and exponential functions; multiple integrals; rectification of curves; quadrature of plane and curved surfaces; cubature of volumes; applications to mechanics.

Text: Murray, *Integral Calculus*.

5—*Surveying.* 3 hours  
First Semester.

Recitations; field work with transit and level; measuring angles, distances, areas; laying out of land, curves; leveling; plotting.

Prerequisite: Courses 1 and 2.

Text: Johnson, *Theory and Practice of Surveying*.



6—*Descriptive Geometry.* 3 hours  
Second Semester.

Problems relating to points, lines, planes, surfaces of revolution, warped surfaces, solids; orthographic, isometric and perspective projections; shades and shadows.

Prerequisite: Courses 1 and 2.

Text: Church, *Descriptive Geometry*.

7—*Theory of Equations.* 3 hours  
First Semester.

General properties, relations of roots and coefficients symmetric functions, transformations, solution of reciprocal and binomial equations, algebraic solutions of cubics and biquadratics, derived functions, limits and separation of roots, solution of numerical equations, determinants.

Prerequisite: Courses 1 and 2.

Text: Burnside and Panton, *Theory of Equations*.

8—*Solid Analytics.* 3 hours  
Second Semester.

Planes, surfaces of the second degree, sections of conicoids, generating lines of conicoids, systems of conicoids, confocal and concyclic conicoids, foci, quadriplanar and tetrahedral coordinates, introduction to theory of general surfaces.

Prerequisite: Courses 1 and 2.

Text: Smith, *Solid Geometry*.

9—*Descriptive Astronomy.* 4 hours  
First Semester.

Fundamental facts and laws, with underlying principles; general theories and modern developments; instruments and general methods.

Prerequisite: Courses 1 and 2.

Text: Young, *General Astronomy*.

10—*Theoretical Astronomy.*

4 hours

Second Semester.

History. Kinetics: general theorems, Newton's three laws of motion, motions of centres of gravity. Central forces: general theorems, Kepler's laws of planetary motion, laws of angular and linear velocity. Problem of two bodies: development of the ten known integrals, potential function. Solar heat: Helmholtz theory, meteoric theory. Double-star orbits.

Lectures and reference reading.

Prerequisite: Courses 1, 2, 3, 4 and 9.

11—*Advanced Integral Calculus.*

4 hours

First Semester.

General theory of definite integrals, Fourier series, Gamma functions, geometrical applications of definite integrals, multiple integrals with applications, introduction to elliptic integrals and functions.

Prerequisite: Courses 1, 2, 3 and 4.

Text: Byerly, Integral Calculus.

12—*Analytical Mechanics.*

4 hours

Second Semester.

Elementary principles. Statics: composition and resolution of forces, conditions of equilibrium, centre of gravity, friction, virtual velocities, machines, funicular polygon, the catenary, attraction. Kinematics: rectilinear and curvilinear motion. Kinetics: motion under the action of a variable force, motion in a resisting medium, central forces, constrained motion, impact, work and energy, moment of inertia, rotary motion, motion of a system of rigid bodies in space.

Prerequisite: Courses 1, 2, 3 and 4; Physics: Courses 1 and 2.

Text: Bowser, Analytic Mechanics.

## PHILOSOPHY.

IRVING E. MILLER, Assistant Professor.

In general this department deals with human experience on its more reflective side. The problems of thought are studied as they seek expression or solution in coherent systems, or are found in the presuppositions that underlie and determine the character of the science, literature, art, and religion of a period, or as they work out in the development of social, political, industrial, and religious institutions. The work is intended to be both cultural and disciplinary. Three courses are offered in the field of pedagogy. These are designed especially for those who expect to teach and who must meet the growing demand for professional training.

1—*Elementary Psychology.*

5 hours

First Semester.

Study of the elementary processes of the mind, cognitive, affective and volitional—both from the psychological and the physiological points of view. After getting a good working outline of the subject as a whole, one or more typical problems are studied in detail in the light of their treatment by representative authors. A standard text-book, such as James' "Briefer Course" or Stout's "Manual" forms the basis of the work and the point of departure for discussion.

2—*Advanced Psychology.*

2 hours

Second Semester.

A continuation of course 1. Detailed investigation of a few selected problems, such as, the method and

scope of psychology, the special senses, mental activity, attention, association and apperception, the psychology of feeling and the emotions, the will, etc. Introduction to the methods of experimental psychology. Reports of experiments and preparation of papers on assigned topics. No specific text-book will be used, but references are given to all available literature.

Prerequisite: Course 1.

3—*Comparative Psychology.*

2 hours

First Semester.

A comparative study of the intelligence of animals from the lowest forms up to and including man. The sphere of instinct and reason, with varying types of development. Discussion of the theories of Lloyd, Morgan, Romanes, Loeb, and Mead. The work of one of these authorities is made the basis of the course, and references to the essential features of the others are given.

Prerequisite: Course 1.

4—*History of Ancient Philosophy.*

3 hours

First Semester.

This course deals with the development of thought among the Greeks and Romans especially. As the problems of thought which confronted them were essentially the same as many with which we still have to deal but were treated by them in a simpler and more naïve fashion, this course forms one of the best introductions to the study of philosophy. Windelband's *History of Ancient Philosophy* is used as a text-book, supplemented by the study of typical selections from the works of Plato, Aristotle, Seneca, Lucretius, etc.

5—*History of Modern Philosophy.* 5 hours  
Second Semester.

An outline of the development of modern thought from the Renaissance to our own times. Considerable attention is given to a few of the more important systems such as those of Descartes, Locke, Berkeley, Hume, Kant and Hegel. Selections from the authors themselves are studied critically with a view to getting clear conceptions of their leading principles.

6-7—*History of Philosophy, Advanced Course.* 3 hours  
Entire Year.

An intensive and thoroughly critical study of some one of the great masterpieces, such as, Kant's "Critique of Pure Reason," Schopenhauer's "The World as Will and Idea," etc. A different work is chosen each semester, so that the course may be taken for the whole year or elected for either semester.

Prerequisite: Courses 1 and 5.

8-9—*Reading Course.* 2 hours  
Entire Year.

Selections from the works of French and German writers upon psychology, ethics, and metaphysics. The primary purpose of the course is to familiarize the student with the technical terms more fully than is possible in the study of modern language from the literary point of view. Advanced students of philosophy must be able to command the literature of the subject in French and German. French, first semester; German, second semester.

Prerequisite: One year's study of the language.

10—*Logic.* 3 hours  
First Semester.

Attention is given to modern scientific methods as well as to formal logic. The subjects of inference, hypothesis, judgment, and detection of fallacies are

studied in detail, as also the relation between the inductive and deductive phases of reasoning.

11—*Ethics.*

3 hours

Second Semester.

The treatment of this subject begins with a brief historical sketch—an outline of the main features of the most influential and representative ethical theories. The fundamental ethical concepts are then subjected to careful logical and psychological analysis, the results of which are brought to bear upon the more detailed study and criticism of the theories already studied in outline. Constructive work accompanies criticism.

Prerequisite: Course 1. Course 10 should be taken if possible, though not an absolute prerequisite.

12—*History of Education.*

3 hours

First Semester.

A sketch of the development of education, the influence of great leaders and great writers from the Greeks to the present day. Discussion of important theories, educational experiments, reforms, and institutions, both civil and ecclesiastic, in their bearing upon modern educational theory and practice.

13—*Educational Psychology.*

3 hours

Second Semester.

A study of special topics in psychology in relation to teaching. Such subjects as attention, imagery, habit, emotion, and the relation of the condition of the bodily organism to the activity of the mind are discussed in their bearing upon methods of teaching and the construction of the curriculum.

Prerequisite: Course 1.

14—*Modern Educational Theory and Practice.* 3 hours  
Second Semester.

The object of this course is to consider what is actually being thought and done in current educational work. An attempt will be made to furnish a rational method for considering the various problems of class-room instruction and to deal with principles that control successful teaching.

PHYSICS.

JOSEPH H. HART, Assistant Professor.

The science of physics has undergone a revolutionary development within the last ten years. This may be attributed to the rapid growth of electrical appliances, the invention of a number of remarkable instruments of research, and the extensive introduction of the ideas and methods of physics into chemistry, biology, botany, psychology, and the allied sciences. As a result of this development a thorough knowledge of physics has become a matter of prime importance, both to those who desire simply to complete a general education and to those who are specialists in other sciences. The courses of instruction here offered, it is believed, are sufficiently varied to satisfy the requirements of all classes, including those who intend to make physics their life work. The general student is given a thorough knowledge of physics in its broadest sense, its relation to other sciences, and the scope of modern work in the department. Every encouragement is given to advanced students for original investigation, and every opportunity is taken to stimulate in both a spirit of scientific inquiry.



1—*General Physics.* 5 hours  
First Semester.

This course is intended to give a thorough knowledge of the general phenomena of physics, and a familiarity with laboratory methods and the use of apparatus. It consists of lectures and recitations, supplemented by laboratory work as far as is practicable.

2—*Advanced Physics.* 5 hours  
Second Semester.

This course is intended as a continuation of course 1, and is open to those students only who have taken course 1 or its equivalent. It is similar in form to that course, but a much larger amount of laboratory work is done.

3—*Light and Heat.* 5 hours  
First Semester.

A laboratory, lecture and recitation course in light and heat. The subject matter is based on Preston's *Light* and Preston's *Heat*. A large amount of outside reading is done in this course under the direction of the instructor.

Prerequisite: Courses 1 and 2.

4—*Electricity and Magnetism.* 5 hours  
Second Semester.

This course is similar to course 3. Some standard text on electricity is used and a large amount of outside reading is done under the direction of the instructor.

Prerequisite: Courses 1 and 2.

5—*Applications of Electricity.* 2 hours  
First Semester.

A lecture course for students who desire a general knowledge of electrical engineering in its broadest

sense. A fortnightly or monthly examination is given on the subject matter of the lectures.

6—*Applications of Electricity.*

2 hours

Second Semester.

This course is similar in purpose and form to course 5 and is intended as a continuation of it. The subject matter, however, will be confined to the more recent applications of electrical engineering.

7—*Experimental Physics.*

First Semester.

This course is intended as an introduction to graduate work in physics. Individual instruction is given and the student is expected to do a large amount of laboratory work and special reading.

8—*Repetition of Classical Experiments.*

Second Semester.

This is an advanced course and is intended as a continuation of course 7, and as a preparatory course for original research by the student.

9—*Research Course.*

First Semester.

This course is for advanced graduate students who will spend most of their time in original work, suggested by themselves or their instructor. The consent of the instructor is required in order to take this course.

10—*Research Course.*

Second Semester.

This course is similar to course 9, and is intended as a continuation of it. Courses 9 and 10 constitute one

year's work for graduate students who have taken the preceding courses or their equivalent.

11—*Interference Methods and their Application.* 1 hour  
First Semester.

This course represents a special department of the recent remarkable development of experimental physics. It is intended to be taken in conjunction with course 7. A practical working knowledge of the instruments is also given.

12—*History of Physics.* 1 hour  
Second Semester.

A short course of lectures on the history of physics, which is intended primarily for graduate students.

13—*Seminar in Physics.*  
First Semester.

A fortnightly informal meeting of instructors and students for the review of current literature and scientific periodicals.

14—*Seminar in Physics.*  
Second Semester.

A continuation of the above during the second half of the year. In addition, a number of original papers and criticisms will be read.

## SOCIOLOGY.

### PRESIDENT BARNES.

The courses in sociology are intended to give students a general survey of the social, intellectual and

physical development of the human race, in so far as this plays a part in man's relations to his fellows; and to present for consideration some of the problems in modern life, which result from the failure of individuals to fulfill their social obligations.

1—*Anthropology.*

2 hours

First Semester.

A general course of study in the development of man, including social characteristics and ethnology; but giving special attention to the growth of those religious, social, political and economic institutions which have their origin in primitive society.

Text: Taylor, *Anthropology*; Brinton, *Races and Peoples*.

2—*Sociology.*

2 hours

Second Semester.

A study of the forms of human association and the principles underlying them, together with a brief consideration of the various problems resulting from a dependant and defective class, and the different means employed for remedy and relief.

Text: Gidding, *Principles of Sociology*; Wright, *Elements of Practical Sociology*.

## OUTLINE OF STUDIES.

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The group system is designed to assist the student in a wise choice of studies, and protect him from the possible errors arising from an unrestricted elective system. To this end the curriculum is divided into six groups, each of which gives prominence to a special line of work, and prescribes the studies necessary to its proper prosecution. Outside of these prescribed studies, there is, in the Junior and Senior years especially, a wide range of electives, affording the opportunity for further specialization or a choice of more general subjects.

The choice of a group and of electives within the group should be made with the utmost care and upon consultation with members of the faculty, as changing from one group to another will not be permitted.

All work in the freshman year is required.

In the sophomore year, there is to be chosen from the electives in any given group a sufficient number of hours to make a total, with required work, of 16 hours per week each semester.

In the Junior and Senior years, students may elect courses from another group, or a preceding year, provided they have had the prerequisite courses. A total of 16 hours per week must be chosen each semester.

In the following tables the small figures indicate the number of the course, the larger figures the number of hours per week.

# FRESHMAN YEAR.

GROUP I. A. B.		GROUP II. Ph.B.		GROUP III. Ph.B.	
<i>Prescribed</i>		<i>Prescribed</i>		<i>Prescribed</i>	
Latin, 1	5	Latin, 1	5	Latin, 1	5
Greek, 1	5	German, 3	5	German, 3	5
Mathematics, 1	4	Mathematics, 1	4	Mathematics, 1	4
English, 1	2	English, 1	2	English, 1	2
	16		16		16
<i>Elective</i>		<i>Elective</i>		<i>Elective</i>	
Bible Study, 4	1	Bible Study, 4	1	Bible Study, 4	1
<i>Prescribed</i>		<i>Prescribed</i>		<i>Prescribed</i>	
Latin, 2	5	Latin, 2	5	Latin, 2	5
Greek, 2	5	German, 4	5	German, 4	5
Mathematics, 2	4	Mathematics, 2	4	Mathematics, 2	4
English, 2	2	English, 2	2	English, 2	2
	16		16		16
<i>Elective</i>		<i>Elective</i>		<i>Elective</i>	
Bible Study, 4	1	Bible Study, 4	1	Bible Study, 4	1
GROUP IV. Ph. B.		GROUP V. B. S.		GROUP VI. B. S.	
<i>Prescribed</i>		<i>Prescribed</i>		<i>Prescribed</i>	
French, 1	3	Biology, 1	5	Physics, 1	5
German, 3	5	German, 3	5	German, 3	5
Mathematics, 1	4	Mathematics, 1	4	Mathematics, 1	4
History, 1	2	English, 1	2	English, 1	2
English, 1	2		16		16
	16		16		16
<i>Elective</i>		<i>Elective</i>		<i>Elective</i>	
Bible Study, 4	1	Bible Study, 4	1	Bible Study, 4	1
<i>Prescribed</i>		<i>Prescribed</i>		<i>Prescribed</i>	
French, 2	3	Biology, 2	5	Physics, 2	5
German, 4	5	German, 4	5	German, 4	5
Mathematics, 2	4	Mathematics, 2	4	Mathematics, 2	4
History, 2	2	English, 2	2	English, 2	2
English, 2	2		16		16
	16		16		16
<i>Elective</i>		<i>Elective</i>		<i>Elective</i>	
Bible Study, 4	1	Bible Study, 4	1	Bible Study, 4	1

# SOPHOMO

## FIRST SEMESTER.

GROUP I. A. B.	GROUP II. Ph. B.	GROUP III. Ph.
<i>Prescribed</i>	<i>Prescribed</i>	<i>Prescribed</i>
Greek, 3 5	Latin, 3 4	Latin, 3
English, 5 1	Mathematics, 3 5	History, 3
English, 3 3	English, 5 1	English, 5
9	English, 3 3	English, 3
	13	
<i>Elective</i>	<i>Elective</i>	<i>Elective</i>
Choose 7 hours	Choose 3 hours	Choose 5 hours
Math., 3, 5, 7, 9 5-3	Math., 5, 7, 9 3	Math., 3, 5, 7, 9 1
Latin, 3 4	German, 5 3	German, 5
French, 1 3	Biology, 1 5	Biology 1
Biology, 1 5	History, 3 3	French, 1
History, 3 3	French, 1 3	Bible Study, 4
Bible Study, 4 1	Bible Study, 4 1	

## SECOND SEMESTER.

<i>Prescribed</i>	<i>Prescribed</i>	<i>Prescribed</i>
Greek, 4 5	Latin, 4 4	Latin, 4
English, 6 1	Mathematics, 4 5	History, 4
English, 4 3	English, 6 1	English, 6
9	English, 4 3	English, 4
	13	
<i>Elective</i>	<i>Elective</i>	<i>Elective</i>
Choose 7 hours	Choose 3 hours	Choose 5 hours
Math., 4, 6, 8 5-3	Math., 6, 8 3	Math., 4, 6, 8 1
Latin, 4 4	German, 6 3	German, 6
French, 2 3	Biology, 2 5	Biology, 2
Biology, 2 5	French, 2 3	French, 2
History, 4 3	History, 4 3	Bible Study, 4
Bible Study, 4 1	Bible Study, 4 1	



# YEAR.

GROUP IV. Ph. B.		GROUP V. B. S.		GROUP VI. B. S.	
<i>Prescribed</i>		<i>Prescribed</i>		<i>Prescribed</i>	
French, 3	2	Chemistry, 1	5	Physics, 3	5
German, 5	3	Biology, 3	4	Mathematics, 3	5
History, 3	3	English, 5	1	English, 5	1
English, 5	1	English, 3	3	English, 3	3
English, 3	3		13		14
	12				
<i>Elective</i>		<i>Elective</i>		<i>Elective</i>	
Choose 4 hours		Choose 3 hours		Choose 3 hours	
Math., 3, 5, 7, 9	5-3	Math., 3, 5, 7, 9	5-3	Math., 5, 7, 9	3
English, 7	3	German, 5	3	German, 5	3
English, 9	2	French, 1	3	French, 1	3
Biology, 1	5	History, 3	3	History, 3	3
Bible Study, 4	1	Bible Study, 4	1	Bible Study, 4	1

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<i>Prescribed</i>		<i>Prescribed</i>		<i>Prescribed</i>	
French, 4	2	Chemistry, 2	5	Physics, 4	4
German, 6	3	Biology, 4	4	Mathematics, 4	5
History, 4	3	English, 6	1	English, 6	1
English, 6	1	English, 4	3	English, 4	3
English, 4	3		13		13
	12				
<i>Elective</i>		<i>Elective</i>		<i>Elective</i>	
Choose 4 hours		Choose 3 hours		Choose 3 hours	
Math., 4, 6, 8	5-3	Math., 4, 6, 8	5-3	Mathematics, 6, 8	3
English, 8	3	German, 6	3	German, 6	3
English, 10	2	French, 2	3	French, 2	3
Biology, 2	5	History, 4	3	History, 4	3
Bible Study, 4	1	Bible Study, 4	1	Bible Study, 4	1

GROUP I. A. B.	GROUP II. Ph. B.	GROUP III. PH
<i>Prescribed</i>	<i>Prescribed</i>	<i>Prescribed</i>
Greek, 5 5	Math., 7,9,11 or	Political Sc., 1
English, 15 or	Physics, 1 8	History, 5
History, 9 5	Latin, 5 3	History, 9
10	11	
<i>Elective</i>	<i>Elective</i>	<i>Elective</i>
Choose 6 hours	Choose 5 hours	Choose 5 h
Latin, 5 3	Greek, 1 5	Greek, 1
Latin, 11 2	Latin, 11 2	Latin, 11
German, 3 5		Latin, 5
French, 3 2	French, 3 2	French, 1
English, 7 3	English, 7 3	English, 7
English, 9 2	English, 9 2	English, 9
English, 11 3	English, 11 3	English, 11
English, 13 2	English, 13 2	English, 13
English, 15 5	English, 15 5	English, 15
English, 19 2	English, 19 2	English, 19
English, 23 1	English, 23 1	English, 23
Chemistry, 1 5	Chemistry, 1 5	Chemistry, 1
Political Sc., 1 3	Political Sc., 1 3	
Biology, 3 4	Biology, 3 4	Biology, 3
Physics, 1 5		Physics, 1
History, 5 3		
History, 9 5	History, 9 5	
Philosophy, 1 5	Philosophy, 1 5	Philosophy, 1
Philosophy, 4 3	Philosophy, 4 3	Philosophy, 4
Philosophy, 8 2	Philosophy, 8 2	Philosophy, 8
Philosophy, 10 3	Philosophy, 10 3	Philosophy, 10
Philosophy, 12 3	Philosophy, 12 3	Philosophy, 12
Math., 9, 11 4	Bible Study, 4 1	Math., 9, 11
Bible Study, 4 1		Bible Study, 4

GROUP IV. Ph. B.		GROUP V. B. S.		GROUP VI. B. S.	
<i>Prescribed</i>		<i>Prescribed</i>		<i>Prescribed</i>	
History, 5	3	Chemistry, 3	5	Math., II	4
English, II	3	Science or		Science or	
English, 15	5	Math., 7, 9, II	6	Math., 7, 9	7
	<hr/>		<hr/>		<hr/>
	II		11		11
<i>Elective</i>		<i>Elective</i>		<i>Elective</i>	
Choose 5 hours		Choose 5 hours		Choose 5 hours	
Greek I,	5				
English, 19	2	French, 3	2	French, 3	2
English, 13	2	English, 7	3	English, 7	3
English, 23	1	English, 9	2	English, 9	2
		English, II	3	English, II	3
		English, 13	2	English, 13	2
		English, 15	5	English, 15	5
		English, 19	2	English, 19	2
		English, 23	1	English, 23	1
Chemistry, I	5			Chemistry, I	5
Political Sc., I	3	Political Sc., I	3	Political Sc., I	3
Biology, 3	4			Biology, I	5
Physics, I	5	Physics, I	5		
		History, 5	3	History, 3	3
History, 9	5	History, 9	5		
Philosophy, I	5	Philosophy, I	5	Philosophy, I	5
Philosophy 4	3	Philosophy, 4	3	Philosophy, 4	3
Philosophy, 8	2	Philosophy, 8	2	Philosophy, 8	2
Philosophy, 10	3	Philosophy, 10	3	Philosophy, 10	3
Philosophy, 12	3	Philosophy, 12	3	Philosophy, 12	3
Math., 9, II	4	Bible Study, 4	1	Bible Study, 4	1
Bible Study, 4	1				

GROUP I. A. B.	GROUP II. Ph. B.	GROUP III. P.
<i>Prescribed</i>	<i>Prescribed</i>	<i>Prescribed</i>
Greek, 6 5	Math., 8, 10, 12 or	Political Sc., 2
English, 16 or	Physics, 2 8	History, 6
History, 10 5	Latin, 6 3	History, 10
10	11	
<i>Elective</i>	<i>Elective</i>	<i>Elective</i>
Choose 6 hours	Choose 5 hours	Choose 5
Latin, 6 3	Greek, 2 5	Greek, 2
Latin, 12 2	Latin, 12 2	Latin, 12
German, 4 5		Latin, 6
French, 4 2	French, 4 2	French, 2
English, 8 3	English, 8 3	English, 8
English, 10 2	English, 10 2	English, 10
English, 12 3	English, 12 3	English, 12
English, 14 2	English, 14 2	English, 14
English, 16 5	English, 16 5	English, 16
English, 20 2	English, 20 2	English, 20
English, 24 1	English, 24 1	English, 24
Chemistry, 2 5	Chemistry, 2 5	Chemistry, 2
Political Sc., 2 3	Political Sc., 2 3	
Biology, 4 4	Biology, 4 4	Biology, 4
Physics, 2 5		Physics, 2
History, 6 3		
History, 10 5	History, 10 5	
Philosophy, 2 3	Philosophy, 2 3	Philosophy, 2
Philosophy, 5 5	Philosophy, 5 5	Philosophy, 5
Philosophy, 9 2	Philosophy, 9 2	Philosophy, 9
Philosophy, 11 3	Philosophy, 11 3	Philosophy, 11
Philosophy, 13 3	Philosophy, 13 3	Philosophy, 13
Math., 10, 12 4	Bible Study, 4 1	Math., 10, 12
Bible Study, 4 1		Bible Study, 4

GROUP IV. Ph. B.		GROUP V. B. S.		GROUP VI. B. S.	
<i>Prescribed</i>		<i>Prescribed</i>		<i>Prescribed</i>	
History, 6	3	Chemistry, 4	5	Math., 12	4
English, 12	3	Science or		Science or	
English, 16	5	Math., 8, 10, 12	6	Math., 8, 10	7
	<hr/>		<hr/>		<hr/>
	11		11		11
<i>Elective</i>		<i>Elective</i>		<i>Elective</i>	
Choose 5 hours		Choose 5 hours		Choose 5 hours	
Week 2,	5				
		French, 4	2	French, 4	2
		English, 8	3	English, 8	3
English, 20	2	English, 10	2	English, 10	2
English, 14	2	English, 12	3	English, 12	3
English, 24	1	English, 14	2	English, 14	2
		English, 16	5	English, 16	5
		English, 20	2	English, 20	2
		English, 24	1	English, 24	1
Chemistry, 2	5			Chemistry, 2	5
Political Sc., 2	3	Political Sc., 2	3	Political Sc., 2	3
Biology, 4	4			Biology, 2	5
Physics, 2	5	Physics, 2	5		
		History, 6	5	History, 4	3
History, 10	5	History, 10	5		
Philosophy, 2	3	Philosophy, 2	3	Philosophy, 2	3
Philosophy 5	5	Philosophy, 5	5	Philosophy, 5	5
Philosophy, 9	2	Philosophy, 9	2	Philosophy, 9	2
Philosophy, 11	3	Philosophy, 11	3	Philosophy, 11	3
Philosophy, 13	3	Philosophy, 13	3	Philosophy, 13	3
Math., 10, 12	4	Bible Study, 4	1	Bible Study, 4	1
Bible Study, 4	1				

	GROUP I. A. B.		GROUP II. Ph. B.		GROUP III. Ph	
	<i>Prescribed</i>		<i>Prescribed</i>		<i>Prescribed</i>	
FIRST SEMESTER.	Social Science, 1 2		Social Science, 1 2		Social Science	
	<i>Elective</i>		<i>Elective</i>		<i>Elective</i>	
	Choose 14 hours		Choose 14 hours		Choose 14 h	
	Latin, 7	2	Latin, 7	2	Latin, 7	
	Latin, 9	2	Latin, 9	2	Latin, 9	
	Latin, 11	2	Latin, 11	2	Latin, 11	
	Greek, 7	3	Greek, 3	5	Greek, 3	
	Greek, 9	2	History, 5	3		
	German, 5	3				
	English, 21	2	English, 21	2	English, 21	
	Chemistry, 3	5	Chemistry, 3	5	Chemistry, 3	
	Physics, 3	5	Physics, 3	5	Physics, 3	
	Biology, 5	5	Biology, 5	5	Biology, 5	
	Political Sc., 3	2	Political Sc., 3	2	Political Sc., 3	
	Political Sc., 5	3	Political Sc., 5	3	Political Sc., 5	
	Philosophy, 3	2	Philosophy, 3	2	Philosophy, 3	
	Philosophy, 6	3	Philosophy, 6	3	Philosophy, 6	
	Bible Study, 4	1	Bible Study, 4	1	Bible Study, 4	
SECOND SEMESTER.	<i>Prescribed</i>		<i>Prescribed</i>		<i>Prescribed</i>	
	Social Science, 2 2		Social Science, 2 2		Social Science	
	<i>Elective</i>		<i>Elective</i>		<i>Elective</i>	
	Choose 14 hours		Choose 14 hours		Choose 14 h	
	Latin, 8	2	Latin, 8	2	Latin, 8	
	Latin, 10	2	Latin, 10	2	Latin, 10	
	Latin, 12	3	Latin, 12	2	Latin, 12	
	Greek, 8	3	Greek, 4	5	Greek, 4	
	Greek, 10	2				
	German, 6	3				
	English, 22	2	English, 22	2	English, 22	
	Chemistry, 4	5	Chemistry, 4	5	Chemistry, 4	
	Physics, 4	5	Physics, 4	5	Physics, 4	
	Biology, 6	5	Biology, 6	5	Biology, 6	
	Political Sc., 2	2	Political Sc., 4	2	Political Sc., 4	
	Political Sc., 3	3	Political Sc., 6	3	Political Sc., 6	
	Philosophy, 7	3	Philosophy, 7	3	Philosophy, 7	
	Philosophy, 14	3	Philosophy, 14	3	Philosophy, 14	
	Bible Study, 4	1	Bible Study, 4	1	Bible Study, 4	

YEAR.

GROUP IV. Ph. B.	GROUP V. B. S.	GROUP VI. B. S.
<i>Prescribed</i>	<i>Prescribed</i>	<i>Prescribed</i>
Social Science, I 2	Social Science, I 2	Social Science, I 2
<i>Elective</i> Choose 14 hours	<i>Elective</i> Choose 14 hours	<i>Elective</i> Choose 14 hours
Greek, 3 5		History, 5 3
	English, 2I 2	History, 9 5
English, 2I 2	Chemistry, 5 5	English, 2I 2
Chemistry, 3 5	Chemistry, 7 5	Chemistry, 3 5
Physics, 3 5	Physics, 3 5	Physics, 5 2
Biology, 5 5	Biology, 5 5	Biology, 5 5
Political Sc., 3 2	Political Sc., 3 2	Political Sc., 3 2
Political Sc., 5 3	Political Sc., 5 3	Political Sc., 5 3
Philosophy, 3 2	Philosophy, 3 2	Philosophy, 3 2
Philosophy, 6 3	Philosophy, 6 3	Philosophy, 6 3
Bible Study, 4 1	Bible Study, 4 1	Bible Study, 4 1
<i>Prescribed</i>	<i>Prescribed</i>	<i>Prescribed</i>
Social Science, 2 2	Social Science, 2 2	Social Science, 2 2
<i>Elective</i> Choose 14 hours	<i>Elective</i> Choose 14 hours	<i>Elective</i> Choose 14 hours
Greek, 4 5		History, 6 3
		History, 10 5
English, 22 2	English, 22 2	English, 22 2
Chemistry, 4 5	Chemistry, 6, 8 5	Chemistry, 4 5
Physics, 4 5	Physics, 4 5	Physics, 6 2
Biology, 6 5	Biology, 6 9	Biology, 6 5
Political Sc., 4 2	Political Sc., 4 2	Political Sc., 4 2
Political Sc., 6 3	Political Sc., 6 3	Political Sc., 6 3
Philosophy, 7 3	Philosophy, 7 3	Philosophy, 7 3
Philosophy, 14 3	Philosophy, 14 3	Philosophy, 14 3
Bible Study, 4 1	Bible Study, 4 1	Bible Study, 4 1



# HOURS

	8:15	9:30	10:30
Bible Study.....			
Biology.....		1, 2—Daily.....	
Chemistry.....			
English.....	3, 4—M, W, F....	23, 24—W.....	15, 16—M, W
.....	9, 10—T, Th.....		
.....			
.....			
French.....		1, 2—M, W, F....	
.....		3, 4—T, Th.....	
German.....			
Greek.....			7, 8—M, W, 1
.....			9, 10—T, Th..
History.....	9, 10—Daily.....	3, 4—M, W, F....	
.....		1, 2—T, Th.....	
Latin....		1, 2—Daily.....	
Mathematics.....	1, 2—M, T, Th, F.	5, 6—M, W, F....	11, 12—M, T, T
Political Science..			
.....			
Philosophy.....		2, 4—M, W, F....	12, 13—M, W
Physics.....		1, 2—Daily.....	
Sociology.....			1, 2—T, Th..

## CITATION.

11:30	1:30	2:30	3:30
			.....W.....
M, T, Th, F			5, 6—Daily.....
	3, 4—Daily.....		1, 2—Daily.....
—T, Th. ....	11, 12—M, W, F.	7, 8—M, W, F....	
	1, 2—T, Th. ....	13, 14—T, Th....	
	21, 22—T, Th		
	5, 6—W.....		
Daily.. ....		5, 6—M, W, F....	
Daily.....		5, 6—Daily.....	
		5, 6—M, W, F....	
, W, Th, F .	5, 6—M, W, F....		
T, W, Th, F..	3, 4—Daily.....		
I, W, F....			
, Th.....			
		10, 11—M, W, F.	1, 5—Daily.....
Daily .....			

# GENERAL REGULATIONS.

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## REGISTRATION.

Each student must report in person at the Dean's office before 1 p. m. of the first Wednesday of the first semester, and register:—

a. His full name, home address and college address.

b. His choice of studies for the semester.

Each candidate for admission must present his certificate of matriculation to the Dean and register not later than the day following his matriculation.

The choice of studies for the second semester must be reported in writing to the Dean three weeks before the beginning of the second semester.

The student who does not register in accordance with the above rules will not be allowed to register until he has received the permission of the Dean and has paid a special fee of one dollar.

## ATTENDANCE.

Each student is expected to be regular in his attendance upon chapel services and class exercises, but to allow for such absences as may seem necessary the following rule has been adopted.

A student is allowed each semester the following absences for which he will not be called to account:

From chapel service, 10 absences; from a five hour course, 5 absences; from a four hour course, 4 absences; from a three hour course, 3 absences; from a two hour course, 2 absences; from a one hour course, 2 absences.

For the first absence exceeding the limit in any of the cases specified, the student will be warned and his parents notified. For the second absence, he will, in case of chapel, be dismissed from college, and in case of recitations, be dropped from the class in which the absence occurred, unless excused by special vote of the faculty.

If suspended for absences, a student will forfeit his standing in the class in which the absence occurred and be required to do the work of the semester with the class of the succeeding year. If, however, he has maintained a satisfactory grade, he may, upon the recommendation of his instructor, obtain from the faculty permission to take a special examination, for which a fee of one dollar shall be paid to the Bursar.

#### PUBLIC WORSHIP.

Every morning immediately after the first recitation a brief religious service is held in the college chapel at which all students are required to be present. It is the aim of the college to maintain the high Christian standard of its missionary founders, and to develop in the students the noblest type of Christian manhood.

All students are desired and encouraged to attend divine worship on Sunday, and the churches of the city are most cordial in their attitude toward the student body.

#### CLASS OFFICERS.

In order that the closest and most friendly relations may exist between the students and the

faculty, each class upon entering college has an instructor assigned to it as class officer, to whom its members can look for advice and council at all times during their college course, and whose judgment in many matters can be of the greatest value to them.

### EXAMINATIONS.

At the end of each semester all students are examined in the studies pursued by them during the semester. A student is not admitted to examination in any study in which his work has been unsatisfactory to the instructor. Absence from an examination, except by reason of absolute necessity, will be regarded as a failure in the study. The results of the examinations are combined with those of the recitations to decide the standing of the student.

The standing of a student is indicated by letters as follows:

A—exceptionally good.

B—passed with credit.

C—passed.

D—conditioned.\*

F—failed, and the study must be taken again the following year.

### RECORDS AND REPORTS.

A careful record is kept of the attendance of every student in the College and of his proficiency in his several studies. At the end of each semester a report is sent to the parent or guardian of every student, giving a record of his absences from required ex-

\*When a student is conditioned he must review the study and be examined, when if he again fails, he will be marked F.

ercises and indicating his standing in each of his studies for that semester.

### GRADUATION HONORS.

The final rank of members of the graduating class is computed by combining the averages for the several years of the course, except that the average for the Freshman year is omitted in those cases in which it would lower the standing of the student. The Faculty then determines what portion of the class shall be printed as the Honor List—the names of the members of each group being printed in alphabetical order. Special Honors in particular departments are also awarded.

The first and second general groups thus determined are the Honor groups of the graduating class, and are designated *magna cum laude* and *cum laude*, respectively.

The higher distinction of *insigni cum laude* and the highest, of *summa cum laude*, are reserved for very unusual excellence.

### COMMENCEMENT SPEAKERS.

The Senior whose individual rank is highest is ordinarily awarded the *Valedictory* by vote of the Faculty. In like manner the Senior whose individual rank is the next highest receives the *Salutatory*. Three others who ranked highest in the Senior Oratorical contest are chosen to deliver English Orations, usually in the order of their scholarship.

In the award of all degrees and honors, regard is had to the conduct of the student during his course,

and any student who has incurred serious discipline may be debarred from the rank to which otherwise his scholarship would have entitled him.

## DEGREES.

### BACHELOR'S DEGREE.

Students who pass their final examinations are ordinarily recommended by the Faculty for the degree of Bachelor of Arts, Bachelor of Philosophy, or Bachelor of Science, according to the course pursued. If the recommendation is approved by the Trustees the degree is conferred at Commencement, and diplomas, signed by the President and the secretary of the Board of Trustees, are issued.

No student will be recommended to the Trustees for a degree who fails to pass the examinations at the close of the second semester of the Senior year. The fee for this degree is five dollars, to be paid to the College Treasurer not later than one week before Commencement.

### MASTER OF ARTS.

The degree of Master of Arts may be conferred upon a Bachelor of Arts or a Bachelor of Philosophy of this or any other approved institution, who shall have devoted one year exclusively to graduate study in the college under the care of the Faculty, and shown satisfactory proficiency therein by examinations and a thesis. The fee for this degree is ten dollars, to be paid to the College Treasurer before the candidate enters his last examinations.



## MASTER OF SCIENCE.

The degree of Master of Science may be conferred upon any Bachelor of Science of this or of an approved institution, who shall have devoted one year exclusively to graduate study in the College under the care of the Faculty in such of the following subjects as the Faculty shall prescribe, and who shall have shown satisfactory proficiency therein by examinations and a thesis: biology, mathematics, chemistry, physics, or modern languages. The fee for this degree is ten dollars, to be paid to the College Treasurer before the candidate enters his last examination.

## PRIZES.

## THE REID PRIZES.

Four prizes, in memory of Arthur Summerville Reid, are given, as follows:

(a) A prize of \$50, competition for which is open to members of the Senior class, is awarded for the best original oration on a given subject, judged from the standpoint of thought and composition.

(b) A prize of \$30, competition for which is open to the five Seniors attaining the highest rank in contest (a), is awarded to the competitor receiving the highest average rank in thought, composition and delivery. \*

(c) A first prize of \$25, and,

(d) A second prize of \$15, are awarded to members of the Junior class for a thesis of not less than 4000 words on some subject chosen alternately by the departments of History and English.

\*The three Seniors receiving the highest average mark in this contest are chosen as commencement speakers.

## THE SMITH PRIZES.

A fund of \$1000 has been given by Mr. Thomas Smith of Hartford, Conn., the income from which is applied as follows:

(a) The income from the sum of \$250 is awarded to a member of the Sophomore class for the best declamation of English prose.

(b) The income from the sum of \$250 is awarded to that member of the Sophomore class receiving the highest grade for the year's work in English composition.

(c) The income from the sum of \$250 is awarded to a member of the Sophomore class in mathematics for the best discussion of some subject related to the work of the year.

(d) The income from the sum of \$250 is awarded to the member of the Freshman class giving the best discussion of some assigned problem or topic in mathematics. The competition is open to the four students whose class rank for the year in mathematics is highest.

## THE IRELAND PRIZE.

The income from the sum of \$500, given by Rev. W. E. Catlin, of the class of 1845, in honor of his classmate, Rev. Wm. Ireland, is awarded to a member of the Senior class for the best paper on some assigned subject in the department of Philosophy.

## THE BRYAN PRIZE.

The income from the sum of \$300, given by the Hon. William Jennings Bryan, of the class of 1881, is awarded to that member of the Junior class in Political Science who presents the best thesis on an assigned subject bearing on the work of the course.

## THE HALL PRIZE.

The income from the sum of \$250, given by Mr. H. H. Hall, of Jacksonville, is awarded for the best oration delivered by a member of the Junior class.

All prizes are offered each year. The Faculty is authorized, however, to withhold the prizes in any instance in which reasonable competition is not manifested by members of the class entitled to compete.

No student will be allowed to compete for a prize in studies which he does not pursue with his class at the regular time.

It is expected that all prizes will be expended for books or for some other object approved by the Faculty.

## SCHOLARSHIPS.

The following scholarships have been established by friends of the College. The income from them is given to students as a reward of merit and as a means of assistance. Application for scholarships must be made not later than May 31, and must contain an honest statement of the student's financial condition, together with testimonials of good moral character, and intellectual ability.

Any student who, by reason of failure at a regular examination, is conditioned in any subject, or who shall fail to attain an average grade of C in the studies of any semester, will forfeit his scholarship for the next semester.

Scholarships are assigned for one year only, and students desiring to have their scholarships con-

tinued must make a new application in the regular form.

- 1—The Henry Haskins Ousley Memorial Scholarship, established by Mrs. Ella L. Brainard, of Lincoln, Ill., in memory of her father.     -     -     -     -     -     -     -     \$1,000
- 2—The Walter Lee Sanders Memorial Scholarship, established by Hon. Geo. A. Sanders, of Springfield, Ill., in memory of his son.     -     -     -     -     -     -     -     \$1,000
- 3—The Frank L. True Memorial Scholarship, established by Lyman W. True, of Jacksonville, in memory of his son.     -     -     \$500
- 4—The Hubbard Scholarship, established by friends of the College.     -     -     -     -     \$1,000
- 5—The Barstow Scholarship, established by Mr. A. C. Barstow, of Providence, R. I. \$1,000
- 6—The Walcott Scholarship, established by Rev. Samuel Walcott, of Providence, R. I.     -     -     -     -     -     -     -     \$1,000
- 7—The Holmes Scholarship, established by Mr. Charles Holmes, of St. Louis, Mo.     -     \$1,000
- 8-9—The Ellis Scholarships, established by Rev. John M. Ellis, one of the founders of the College.     -     -     -     -     -     -     -     \$2,000
- 10-11—The Abel Scholarships, established by Mr. Abel, of Quincy, Ill.     -     -     -     \$2,000

## EXPENSES.

The following is a schedule of expenses for each semester:

Required of all:

Tuition .....	\$25.00
Library and gymnasium fee.....	2.50

Total .....	<u>\$27.50</u>
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Students in Biology: laboratory fee..... \$2.50

“ “ Histology: “ “ ..... 2.50

“ “ Physics: “ “ ..... 2.50

“ “ Chemistry: “ “ ..... 5.00

Room rent in Crampton Hall.....\$12.50 to 20.00

Board at the College Club,.... .....\$45.00.

## ESTIMATE BY THE YEAR.

Tuition .....	.\$ 50.00	\$50.00	\$50.00
Library and gymnasium fees	5.00	5.00	5.00
Room rent.....	25.00	30.00	40.00
Board.....	75.00	90.00	108.00
Books, society fees, etc....	10.00	15.00	20.00
Light .....	5.00	7.00	10.00
Laboratory fees.....		2.50	10.00

	<u>\$170.00</u>	<u>\$199.50</u>	<u>\$243.00</u>
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## TUITION AND FEES.

All tuition and fees are payable to the Bursar at the time of registration. No student will be enrolled as a member of any department or class until he presents a receipt from the Bursar. In exceptional cases, by depositing with the Bursar \$5.00 in addition to the fees, a student will be given a receipt in part. This deposit will be forfeited unless the remainder of the tuition is paid within thirty days.

## LODGING.

Steam heated rooms may be had in Crampton Hall at the rate of \$12.50 to \$20.00 per semester. A deposit of \$5.00 must be made when the room is reserved and the balance paid within thirty days from date of registration.

The accommodations are superior to those of ordinary college dormitories. Each suit of rooms, consisting of a study room fifteen feet square and a bedroom eight by twelve, is occupied by two students, and is neatly cared for every day by a janitor. The study room is furnished with a large study table, and the bedroom with a double woven wire mattress bed, as permanent articles of furniture. Other articles of furniture, such as chairs, washstands with appurtenances, and bedding, are furnished by the students themselves at light expense.

Choice of rooms is given by seniority to the college classes. Early application should be made by those wishing to secure rooms in Crampton Hall, as the building is usually full at the opening of the college year.

Each student occupying rooms in Crampton Hall is required to deposit with the Bursar \$10.00 at the beginning of each semester, to be applied by him to the payment of gas bills and possible damages during the semester. Any money not so applied will be returned to the student at the close of the semester, or at such time as the student may have leave of absence for the remainder of the semester.

Each room is supplied with a meter, so that its occupants pay for exactly the amount of gas consumed.



Students vacating rooms for any cause are required to remove their furniture within one week. No fees, rents or tuition will be refunded except in cases of sickness. In this event the student must secure from a physician a certificate of his inability to remain in College, when half the amount paid for rent and tuition will be refunded, if application is made before the middle of the semester.

#### BOARD.

Students maintain a boarding club in a commodious building on the campus, well supplied by the College with all the necessary table and other furniture, and obtain good board at its actual cost. The price of board is estimated at \$2.50 per week. The cost of board in private families, with furnished room, is from \$3.50 to \$4.50 per week.

#### LIBRARIES.

The working value of the College library has been greatly increased by its thorough reorganization and the introduction of the Dewey system of classification, with complete card catalogue. The collection of books, taken as a whole, is large and well selected, and in several departments it is very valuable and quite complete. The reading room adjoining the library is supplied with a large and representative assortment of papers and periodicals. The library is open the entire day for the consultation and drawing of books. The reading room is open also in the evening. The librarian will gladly assist students in the choice of books to be read in connection with their studies.



The number of volumes in the college library as well as in the various society libraries is as follows:

College library.....10,300 volumes.

Sigma Pi library..... 2,000 volumes.

Phi Alpha library..... 2,100 volumes.

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Total.....14,400 volumes.

As an indispensable adjunct to every department of instruction the library will have as large and frequent accessions made to it as the resources of the college will permit.

#### LITERARY SOCIETIES.

Among the most attractive and valuable features of student life in Illinois College are the Literary Societies. These not only have the enthusiastic support of their members, but are heartily endorsed by the faculty as useful adjuncts to the regular departments of instruction. They are conducted with ability, dignity and strict attention to the purpose of their organization, which is to furnish thorough training in debate, in expression of thought, and in parliamentary usage. Regular attendance and the prompt performance of duties are secured to a much greater degree than is usual in such organizations. The cost of membership is slight, the dues varying from one to two dollars a year. These societies—Phi Alpha, Sigma Pi and Gamma Nu—hold their meetings Friday evenings in their rooms in Beecher Hall, which is devoted exclusively to their use. The society libraries contain more than four thousand carefully selected works which are

available for the use of members. All students of the college are eligible to membership.

#### THE CHRISTIAN ASSOCIATION.

The Illinois College Young Men's Christian Association has long been an exceptionally efficient and useful factor in student life. Its weekly exercises consist of a general meeting for prayer and conference Sunday afternoon, three classes for Bible study and a class for study of missions. An employment bureau for the benefit of all college students is a valuable feature of the Association work. Commodious rooms in the Jones Memorial building are devoted to the use of the Association.

#### PHYSICAL CULTURE.

Systematic physical training is provided for all connected with the college and is required of all below the Junior year. Before entering upon this training every student is given a thorough physical examination by the director of physical culture. From this examination a chart is made out for the student, showing his size, strength and development, and how he compares with the normal standard.

From January until April exercise is required in the gymnasium, most of the instruction being given in classes. Pulley weights adjustable to varying strength, Indian clubs, dumb bells, bar bells, wands, horizontal and parallel bars, rings and apparatus for developing special muscles are employed. To advanced

students special drill is given on the horizontal bar and the horse.

The gymnasium is fully equipped for all forms of physical exercise, having in addition to the above mentioned apparatus, a base-ball cage, tub and shower baths, and lockers.

In addition to the work in the gymnasium, every facility is given for participation in out-door sports. The campus affords ample room for all forms of athletics, being supplied with a cinder running-track, ball fields, and tennis courts. During the winter months cross-country runs are kept up.

The ordinary drill-work as well as the training of teams for inter-collegiate contests is under the direction of a competent instructor.

The general management of the athletic organization is vested in the Board of Control of the Athletic Association, consisting of representatives from the alumni, faculty and students.

# LIST OF STUDENTS, 1900-1901.

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## SENIORS.

Clayton Jackson Barber 26 Crampton	<i>Springfield</i>
Cyrus McDoel Buckley 9 Crampton	<i>Petersburg</i>
Charles Clinton Clement 25 Crampton	<i>Greenfield</i>
Frederick Coffin Coleman 420 S. Main St.	<i>Jacksonville</i>
Elbert Adrian Collins 17 Crampton	<i>Chillicothe</i>
Albert Henry Dollear 420 W. State St.	<i>Jacksonville</i>
Dwight Beverly Eames 622 W. State St.	<i>Jacksonville</i>
Alfred E. Fell 614 S. East St.	<i>Jacksonville</i>
Frederick LaRue Gregory 825 S. East St.	<i>Jacksonville</i>
Thomas V. Hopper 301 N. Diamond St.	<i>Jacksonville</i>
George Jackson Kneeland 1328 Mound Ave.	<i>Griggsville</i>
Melvin Robert Laird 23 Crampton	<i>Maysville</i>
Albert Caldwell Metcalf, 223 Hardin Ave.	<i>Jacksonville</i>

William Sheppard Sanford	<i>Bunker Hill</i>
1328 Mound Ave.	
John Allen Schmink	<i>Jacksonville</i>
6 Crampton	
Arthur Elmer Sneed	<i>Detroit</i>
229 Lockwood Place	
Cassius Miller Stanley	<i>Ashland</i>
872 Grove St.	
Cash Whitney Ufford	<i>Lewiston</i>
7 Crampton	
Knowles Shaw Tontz	<i>Highland</i>
21 Crampton	

## JUNIORS.

Lloyd Lackland Adams	<i>Jacksonville</i>
1109 W. State St.	
Leon Littlefield Brockman	<i>Quincy</i>
26 Crampton	
Stephen Reid Capps	<i>Jacksonville</i>
504 N. Church St.	
William Henry Cocking	<i>Jacksonville</i>
310 W. North St.	
Ralph Wendling Cooke	<i>Bowen</i>
14 Crampton	
Egerton Lafayette Crispin	<i>Salem, N. J.</i>
14 Crampton	
Elbert Hugh Filson	<i>Concord</i>
8 Crampton	

Elvin David George	<i>Staunton</i>
28 Crampton	
E. Bentley Hamilton, Jr.	<i>Quincy</i>
1328 Mound Ave.	
Selden Spencer Leonard	<i>Jacksonville</i>
211 S. Fayette St.	
John Williams McHarry	<i>Havana</i>
8 Crampton	
Robert Lincoln McNeil	<i>Berlin</i>
654 S. Diamond St.	
Emanuel Conceicao Pires	<i>Jacksonville</i>
1074 N. Main St.	
John Ralph Roach	<i>Concord</i>
19 Crampton	
Martin Leslie Smith	<i>Jacksonville</i>
506 Jordan St.	
Edwin Leroy Stimpson	<i>Jacksonville</i>
760 W. North St.	
Paul Wilbur Wemple	<i>Waverly</i>
1328 Mound Ave.	
James Gilham Winterbottom	<i>Jacksonville</i>
1326 W. State St.	
James Garfield Tontz	<i>Highland</i>
21 Crampton	

## SOPHOMORES.

Fred Gregory Buffe	<i>Bloomington</i>
3 Crampton	

- George Everett Doying, Jr. *Jacksonville*  
1017 W. College Ave.
- Francis William Bristow *Virginia*  
921 W. State St.
- Ralph Irvin Dunlap *Jacksonville*  
1025 W. State St.
- Homer Ernest Fullenwider *Mechanicsb'rg*  
830 W. College Ave.
- William George Goebel *Meredosia*  
1017 W. College Ave.
- William Murray Goff *Ashland*  
846 Grove St.
- Abraham R. Gregory, Jr. *Jacksonville*  
825 S. East St.
- Wilber Walter Hatfield *Pittsfield*  
236 S. Park St.
- Arthur Oliver Lindsay *Decatur*  
12 Crampton
- William Adams Lippincott *Jacksonville*  
1120 W. College Ave.
- Oswell Laurie McNeil *Berlin*  
654 S. Diamond St.
- Duval S. O'Neal *Arnold*  
1120 W. College Ave.
- Oimai Brewster Preston *Jacksonville*  
433 N. Finley St.
- George Rutledge *Versailles*  
1320 W. State St.
- Arthur Scott *Jacksonville*  
805 E. College Ave.



Edgar Wilson Smith	<i>Jacksonville</i>
506 Jordon St.	
Lawrence Elmer Stone	<i>Lane</i>
12 Crampton	
Jessie Madison Thompson	<i>Pittsfield</i>
229 Lockwood Place	
John Antonio Vasconcellos	<i>Jacksonville</i>
324 E. College Ave.	
George William Watson	<i>Lynnville</i>
1132 W. College Ave.	
Sumner White	<i>Knox City, Mo</i>
711 W. College St.	
Joseph Erastus Winterbottom	<i>Jacksonville</i>
1326 W. State St.	

## FRESHMEN.

Walter Henry Balke	<i>Jacksonville</i>
364 W. College Ave.	
Albert Crum Baxter	<i>Ashland</i>
814 W. College Ave.	
Edward Philip Brockhouse	<i>Concord</i>
1123 W. State St.	
Chauncey S. Conger	<i>Carmi</i>
1127 Mound Ave.	
Charles Mosley Eames	<i>Jacksonville</i>
622 W. State St.	
Arthur Frederick Ewert	<i>Jacksonville</i>
331 E. State St.	

Fred Columbus Frederick	<i>Jacksonville</i>
400 S. Main St.	
William Sidney Henderson	<i>Quincy</i>
1127 Mound Ave.	
Melville Talbot Kennedy	<i>Jacksonville</i>
1030 Grove St.	
Oscar Frank Kressie, Jr.	<i>E. St. Louis</i>
5 Crampton	
Evert Dean Martin	<i>Jacksonville</i>
500 W. Morton Ave.	
Benjamin Franklin Lane	<i>Riggston</i>
1026 W. College Ave.	
John Barton Self	<i>Petersburg</i>
284 Sandusky St.	
Bradford Sturtevant	<i>Kushla, Ala.</i>
252 S. Park St.	
Walter Edwin Webster	<i>Pleasant Hill</i>
942 W. Lafayette Ave.	
Lawrence Newton Wylder	<i>Jacksonville</i>
513 N. Church St.	

## SUMMARY.

Seniors	-	-	-	20
Juniors	-	-	-	19
Sophomores	-	-	-	23
Freshmen	-	-	-	16
				—
Total	-	-	-	78





CATALOGUE  
OF  
ILLINOIS COLLEGE



SEVENTY-THIRD YEAR

ANNOUNCEMENTS 1902-1903

REGISTER 1901-1902

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JACKSONVILLE, ILLINOIS

APRIL, 1902

## CORRESPONDENCE.

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Correspondence addressed simply to ILLINOIS COLLEGE may be expected to reach the proper department, but, in order to avoid delay and possible confusion, correspondents are requested to note the following directions:

Communications relating to matters directly in the charge of the Trustees should be addressed to the SECRETARY OF THE TRUSTEES. Correspondence bearing upon the general interests of the College or Whipple Academy should be addressed to the PRESIDENT. Inquiries concerning conditions of entrance to the College whether by examination or certificate, concerning undergraduate courses, and other matters pertaining to the students should be addressed to the DEAN. Inquiries concerning entrance to Whipple Academy should be addressed to the PRINCIPAL. Requests for the Annual Catalogue and other publications, and inquiries relating to expenses should be addressed to the REGISTRAR. Inquiries or information concerning alumni should be sent to the LIBRARIAN. Inquiries in regard to procuring lectures of Lecture-Study Department should be addressed to THE LECTURE-STUDY DEPARTMENT of the College.

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# COLLEGE CALENDAR, 1902-1903.

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1902.

*September 22-23. Monday and Tuesday.* Examinations for admission to the Freshman class and to advanced standing. Registration of undergraduate students.

*September 24. Wednesday.* FIRST SEMESTER BEGINS, 9:15 a. m.

*November 17. Monday.* Last day for handing in subjects for Senior Prize Orations.

*November 26 to December 1. Wednesday noon to Monday noon.* Thanksgiving Recess.

*December 11. Thursday.* Winter Meeting of the Board of Trustees at Chicago.

*December 27, 1902, to January 6, 1903. Saturday to Tuesday.* 9:15 a. m. Christmas Recess.

1903.

*January 23. Friday.* Last day for handing in choice of studies for second semester.

*February 9-13. Monday to Friday inclusive.* Mid-year Examinations.

*February 12. Thursday.* Lincoln's Birthday Commemorative Exercises.

*February 14. Saturday.* Registration for second semester, 8:00-12:00 a. m.

*February 16. Monday.* SECOND SEMESTER BEGINS, 8:15 a. m.

*February 22. Sunday.* Washington's Birthday.

*February 23. Monday.* Last day for handing in Orations for Senior Prize Orations.

*March 17. Tuesday.* Gymnasium Contest.

- April 15-21.* *Wednesday noon to Tuesday, inclusive.*  
Spring Recess.
- April 24.* *Friday.* Senior Oratorical Contest.
- May 8.* *Friday.* Freshman Prize Declamation.
- June 8-12.* *Monday to Friday.* Senior Examinations.
- June 15-19.* *Monday to Friday.* Regular Examinations.
- June 21.* *Sunday.* Baccalaureate Sermon.
- June 22.* *Monday.* Junior Prize Speaking.
- June 23.* *Tuesday.* Osage Orange Day.  
Class Reunions.
- June 24.* *Wednesday.* Annual Meeting of the Board  
of Trustees.  
Class Day.
- June 25.* *Thursday.* Annual Commencement.
- SUMMER VACATION.
- September 21-22.* *Monday and Tuesday.* Examinations for  
admission to the Freshman class and to  
advanced standing. Registration of un-  
dergraduate students.
- September 23.* *Wednesday.* FIRST SEMESTER BEGINS,  
9:15 a. m.

## LOCATION.

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Jacksonville, with a population of 16,000, is one of the oldest and most beautiful towns in Illinois. It is located about 200 miles south-west of Chicago and 30 miles west of Springfield, at the intersection of the Chicago and Alton, the Wabash, the Chicago, Peoria and St. Louis, and the Jacksonville and St. Louis railroads. Its preeminence as an educational center in early days led many cultured families to make their homes in its neighborhood; in these later years the development of colleges and of seminaries has given the place a distinct air of refinement. Its streets are well paved, lighted by electricity, and everywhere lined by arching elms. Its healthful climate and high moral tone render it a most favorable location for a christian college.

The College campus occupies a partially wooded tract of land, some twenty acres in size, beautifully located on a slight elevation known as College Hill, surrounded by the most beautiful residence portion of the city.

## HISTORICAL SKETCH.

---

Illinois College, the first institution in the history of the state to graduate a collegiate class, was founded in 1829 through the happy combination of two independent forces. One force, inspired by the missionary zeal of Rev. John M. Ellis of the Presbyterian church, was composed largely of residents of Jacksonville who were eager to give the youth of their state a liberal education. The other, an eastern organization known as the "Yale Band," consisted of seven men from Yale College who had pledged themselves to the cause of christian education in the Home Mission fields of the growing West.

As early as 1827 an attempt had been made to establish a college at some point within five miles of Jacksonville; in 1828 the outline of a plan was prepared in which certain prominent citizens of Morgan, Green, Bond, Montgomery, Sangamon, and Madison counties agreed that if proper support were given, they would do everything possible "to build an institution worthy the patronage of an enlightened and free people, and to secure the accomplishment of our best wishes for the education of our youth, the hope and glory of the land." In 1829 the "Yale Band," composed of Theron Baldwin, John F. Brooks, Mason Grosvenor, Elisha Jenney, William Kirby, Julian M. Sturtevant, and Asa Turner, brought with them to the West not only christian zeal and cultivated

talents, but also contributions made by friends in the East amounting to \$10,000, with which to start the enterprise.

Before the close of 1829 a complete organization of Illinois College had been perfected; Beecher Hall, the oldest college building in the state, had been erected; and the first instructor, Julian M. Sturtevant, had entered upon his duties. In December 1830, Rev. Edward Beecher, himself a graduate of Yale, and an elder brother of Henry Ward Beecher, was called to the Presidency. Feeling deeply the great possibilities of the work, he gave up his large church on Boston Common, and for fifteen years did splendid service in developing the resources and in strengthening the foundations of the new institution.

A strong prejudice against "Yankees," which then existed in Illinois, together with fear of a theological bias in education, made it impossible at first to obtain a charter from the Legislature; it was not till 1835 that the College succeeded, by means of an "omnibus bill," in gaining legal recognition. In this year the first class was graduated with Richard Yates, well known as the War Governor of Illinois and afterward as United States senator, among its members.

In 1844 Dr. Beecher retired from the Presidency and was succeeded by Dr. Julian M. Sturtevant, whose memorable term of office continued thirty-two years. Prof. Rufus C. Crampton filled the position of Acting President from 1876 to 1882, when Rev. Edward A. Tanner was elected President, holding the office until his death in 1892. His successor was



Dr. John E. Bradley who resigned January 1900, after eight years of service. Prof. M. E. Churchill performed the duties of Acting President until June 1900, when Rev. Clifford W. Barnes was elected President.

By the Charter of Illinois College the general government and administration of the institution are vested in a Board of Trustees. The immediate direction of the college work is vested in the Faculty, who are empowered to determine the requirements for admission to the College, the standard of excellence in the several classes, and the subjects and the methods of study. They also have the power to make such rules, subject to the judgment of the trustees, as may be deemed best for the guidance of the institution and for the advancement of its work.

It is the aim of Illinois College to extend to young men the benefits of a liberal education of a very high standard in the midst of a wholesome christian atmosphere. The courses of instruction are so arranged as to give the best preparation for professional study and for active life, and at the same time to afford the broadest general culture. The instructors are specialists in their various departments, and the class rooms and laboratories are supplied with good appliances for illustration and experiment. The wide range of elective studies enables students to carry their work in any chosen department to a high degree of perfection, while the group system of studies prevents wasteful scattering of efforts.

## BUILDINGS AND EQUIPMENT.

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### JONES MEMORIAL HALL.

In 1896 Dr. Hiram K. Jones, of Jacksonville, presented to the College in memory of his wife, Elizabeth Orr Jones, the Jones Memorial Hall. This hall, beautifully constructed of brick and terracotta, and fitted in accordance with the most modern methods of lighting, of heating, and of ventilating, contains the College chapel, the offices of the President, of the Dean, and of the Registrar, the Library, a room for the Y. M. C. A., and a number of recitation rooms.

### STURTEVANT HALL.

In 1852, immediately after all buildings of the College except Beecher Hall had been burned, the Trustees set about laying plans for a new building, that should contain a number of recitation rooms and a temporary chapel. This building was completed in 1857, when it received its name in honor of Dr. Sturtevant. Recently it has been thoroughly renovated, and now contains the Chemical and the Biological laboratories, with recitation rooms.

### BEECHER HALL.

The first building of the College, built in 1829, still stands. It is now occupied exclusively by the halls and libraries of the student literary societies, Phi Alpha, Sigma Pi, and Gamma Nu.

## CRAMPTON HALL.

This hall, a large brick building of three stories, was built in 1873 as a dormitory for students and instructors. As the building stands in the middle of the campus the students' rooms are convenient to all recitation rooms. Nine rooms of this building have been set aside as temporary quarters for the Physical Laboratory.

## THE GYMNASIUM.

This is a large, brick building built in 1892, giving students every opportunity for physical culture. The lower floor contains bath-rooms, with tub and shower baths, a locker-room, and a cage for indoor base-ball practice, hurdling, pole-vaulting, etc. The second floor forms one large room, which is fitted with all kinds of physical apparatus. This room has been newly refitted and decorated, that it may be used by the students for social events too large for accomodation elsewhere.

On the campus are a cinder track, a ball field, a foot-ball field, tennis-courts, etc.

## WHIPPLE HALL.

This building is occupied by the Preparatory Department, for which it was built in 1882. Besides a large study-room, common to all students, it contains a number of separate recitation rooms.

## COLLEGE HALL.

As a dining-hall for students and instructors of

the College and the Academy, this hall has all conveniences needful for its purposes.

The College buildings are equipped with all the modern appliances for lighting and heating.

#### LIBRARIES.

The working value of the College library has been greatly increased by its thorough reorganization and the introduction of the Dewey system of classification, with complete card catalogue. The collection of books, taken as a whole, is large and well selected, and in several departments it is very valuable and complete. The reading room adjoining the library is supplied with a large and representative assortment of papers and periodicals. The library is open the entire day for consultation and drawing of books. The reading-room is open also in the evening. The librarian will gladly assist students in the choice of books to be read in connection with their studies.

The number of volumes in the College library as well as in the various society libraries is as follows:

College library - - - 10,522 volumes

Sigma Pi library - - - 2,000 volumes

Phi Alpha library - - 2,100 volumes

As an indispensable adjunct to every department of instruction the library will have as large and as frequent accessions made to it as the resources of the College will permit.

#### THE BIOLOGICAL LABORATORY.

The Department of Biology occupies the greater portion of the main floor of Sturtevant Hall. The

rooms are all well lighted, well ventilated, and provided with gas and water. The laboratory is fitted with cases and operating tables, has an abundant supply of materials and instruments,—microscopes, microtomes, paraffin baths, ovens, chemicals, a complete set of stains for use in Histology, etc. In addition it has equipment for work in Plant Physiology, with a window conservatory, collections of Zoological and of Botanical specimens, a very valuable set of microscopical slides, a complete set of Zoological charts, and a small Biological library.

#### THE CHEMICAL LABORATORY.

During the year 1901-02 a thoroughly modern Chemical Laboratory has been installed in roomy quarters, where the best of ventilation is readily secured. Stone-top benches, piped with water and gas, and fitted with individual lockers, have been provided. The plumbing in all fixtures and connections is as perfect as science can make it. For experiments in which noxious gases are set free, six large hoods with forced draughts have been built. Besides supplies of chemicals and of apparatus, ample for all courses offered in the department, the laboratory has a valuable collection of technical products, generously given, in illustration of representative industries.

#### THE PHYSICAL LABORATORY.

The Department of Physics offers excellent laboratory facilities in all its courses. Besides a large lab-

oratory for general work, it has a light room, a magnetic room, a machine-shop, several private laboratories for advanced students, and a departmental library. These laboratories, furnished with electric and steam power, have a full equipment of apparatus and of instruments. The departmental library contains the chief standard books of reference and a number of scientific periodicals.

## PRESIDENTS.

REV. EDWARD BEECHER, D. D.	- - -	1830-1844
REV. JULIAN M. STURTEVANT, D. D., LL. D.	-	1844-1876
REV. EDWARD A. TANNER, D. D.	- - -	1882-1892
JOHN E. BRADLEY, Ph. D., LL.D.	- - -	1892-1899
REV. CLIFFORD WEBSTER BARNES, M. A.	-	1900—

## ACTING PRESIDENTS.

RUFUS C. CRAMPTON, LL. D.	- - - -	1876-1882
MILTON E. CHURCHILL, Litt. D.	- - - -	1899-1900

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## TRUSTEES.

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<i>President.</i>		
WILLIAM B. BROWN,	- - - - -	Chicago
<i>Monadnock Building.</i>		
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<i>Eckhart &amp; Swan Milling Co.</i>		
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<i>First National Bank.</i>		
EGBERT W. GILLETT,	- - - - -	Chicago
<i>Gillett Chemical Works.</i>		
HOWARD VAN D. SHAW,	- - - - -	Chicago
<i>Monadnock Building.</i>		
CHARLES E. RIDGELY,	- - - - -	Springfield
<i>Ridgely National Bank.</i>		
RICHARD YATES,	- - - - -	Springfield
<i>Governor's Mansion.</i>		
REV. SAMUEL H. DANA,	- - - - -	Quincy
<i>Congregational Church.</i>		
JOHN A. AYERS,	- - - - -	Jacksonville
<i>Ayers National Bank.</i>		



JUDGE CHARLES A. BARNES,	-	-	-	-	Jacksonville
<i>Room 2, Duncan Building.</i>					
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<i>Dunlap, Russell &amp; Co., Bankers.</i>					
ROBERT M. HOCKENHULL,	-	-	-	-	Jacksonville
<i>Hockenhull-Elliott Bank &amp; Trust Co.</i>					
JUDGE EDWARD P. KIRBY,	-	-	-	-	Jacksonville
<i>232½ West State Street.</i>					
DR. THOMAS J. PITNER,	-	-	-	-	Jacksonville
<i>215 West College Ave.</i>					
CHARLES S. RANNELLS,	-	-	-	-	Jacksonville
<i>President Matthews Woven Wire Fence Co.</i>					
JULIUS E. STRAWN,	-	-	-	-	Jacksonville
<i>331 West College Ave.</i>					

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#### ALUMNI TRUSTEES.

JOHN E. KEHOE,	-	-	-	-	-	Chicago
<i>Assistant City Attorney.</i>						
HON. WM. J. BRYAN,	-	-	-	-	-	Lincoln, Neb.
<i>"The Commoner," Lincoln, Neb.</i>						
JULIAN P. LIPPINCOTT,	-	-	-	-	-	Jacksonville
<i>Room 3, Ayers Bank Building.</i>						

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JULIAN P. LIPPINCOTT,  
*Secretary of the Trustees.*

JOHN A. AYERS,  
*Treasurer.*

R. A. GATES,  
*Financial Secretary.*

## COMMITTEES.

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Messrs. E. W. GILLET, B. A. ECKHART, HOWARD SHAW, WM. BROWN, RICHARD YATES, CHAS. RIDGELY, FRANK W. TRACY, E. P. KIRBY, T. J. PITNER, JULIUS E. STRAWN.

*Finance Committee*—M. F. DUNLAP, Chairman.

Messrs. R. M. HOCKENHULL, H. M. CAPPS, C. A. BARNES.

*Buildings and Grounds*—J. P. LIPPINCOTT, Chairman.

Messrs. C. S. RANNELLS, S. A. DANA.

*Catalogue*—H. M. CAPPS, Chairman.

Messrs. J. E. KEHOE, W. J. BRYAN.

## FACULTY AND OFFICERS.\*

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CLIFFORD WEBSTER BARNES, President,

*Professor of Sociology.*

A. B., Yale University, 1889; D. B. *ibid.*, 1902; A. M., The University of Chicago, 1893; Fellow in Church History, *ibid.*, 1892-93; Resident worker, Hull-House Social Settlement, 1893-94; Pastor, Chicago, 1894-97; Student, Mansfield College, Oxford, England, 1898; Director of Social and Religious Work for students, Paris, France, 1898-99; Instructor in Sociology, and Director of Social Settlement work, University of Chicago, 1899-1900.

HIRAM KINNAIRD JONES,

*Professor of Philosophy Emeritus.*

A. B., Illinois College, 1844; A. M., 1847; M. D., 1846; LL.D., 1878; Founder, Concord School of Philosophy, 1879; Lecturer on Greek Philosophy, *ibid.*, 1879-89; President American Akademie, 1878; Professor of Philosophy, Illinois College, 1886-1900.

HARVEY WILLIAM MILLIGAN,

*Professor of History and English Literature Emeritus.*

A. B., Williams College, 1853; A. M., 1856; M. D., University of Pennsylvania, 1862; Instructor State Institution for Deaf Mutes, Pennsylvania, 1856-65; Principal of same in Wisconsin, 1865-69; Instructor in same in Illinois, 1869-82; Professor of History and English Literature in Illinois College, 1882-1898.

MILTON ERASTUS CHURCHILL, Dean,

*Collins Professor of Greek.*

A. B., Knox College, 1877; A. M., 1880; B. D., Yale University, 1883; Litt. D., Knox College, 1900; Instruc-

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\*With the exception of the President the names in each group are arranged in the order of the seniority of appointment.

tor in Latin and Greek, Knox College, 1878-80, and 1885-87; Principal Emerson Institute, Mobile, 1883-85; Professor of Latin, Blackburn University, 1887-91; Student, Leipsic, Germany, 1891; Professor of Greek and German, Illinois College, 1891-1901; Professor of Greek and Dean, Illinois College, 1901.

### FREDERICK WARREN SANFORD,

#### *Professor of Latin.*

B. S., Illinois College, 1890; A.B., *ibid.*, 1894; Teacher in Public Schools, 1890-91; Instructor in Latin, Jacksonville High School, 1891-92; Instructor in Latin and Greek, Whipple Academy, 1892-94; Graduate Student, University of Chicago, 1894-95; Instructor in Latin, Illinois College, 1895-97; Professor of Latin, Illinois College, 1897——. Absent on leave, 1900-1901.

### JOHN GRIFFITH AMES, JR.,

#### *Professor of English.*

A. B., Johns Hopkins University, 1894; B. Litt., Oxford University, England, 1899; Graduate Student, Harvard University, 1894-95; Instructor in English, Kenyon College, Gambier, Ohio, 1895-96; Professor of English, *ibid.*, 1896-97; Assistant Professor of English, Illinois College, 1900-1901; Professor of English, Illinois College, 1901——.

### JOHN BISHOP TINGLE,

#### *Professor of Chemistry.*

Owens College, Manchester, 1884-1887; Ph. D., Munich, 1889; Demonstrator in Chemistry, Heriot-Watt College, Edinburgh, 1889-90; Research Assistant in Organic Chemistry, Royal College of Science, London, 1890; Lecturer in Chemistry, Merchant Venturers' Technical College, Bristol, 1890-92; Lecturer in Chemistry, Gordon's College, Aberdeen, 1892-96; Organic Research Laboratory, University of Pennsylvania, 1897; Instructor in Chemistry, Lewis Institute, Chicago, 1897-1900; Professor of Chemistry, Illinois College, 1901——.

JAMES BERTRAM OVERTON,

*Professor of Biology.*

Ph. B., University of Michigan, 1894; Ph. D., University of Chicago, 1901; Assistant Principal of the Public High School, Black River Falls, Wisconsin, 1894-95; Senior Master in Mathematics, St. John's Military Academy, Delafield, Wisconsin, 1895-98; Graduate Student in Botany and Zoology, University of Chicago, 1898-1900; Fellow in Botany, University of Chicago, 1900-1901; Graduate Assistant in Botany, University of Chicago, Summer Quarter, 1901; Professor of Biology, Illinois College, 1901—.

FRANK MARION MORRISON, Acting Dean,

*Professor of Mathematics.*

A. B., University of Michigan, 1892; Instructor in Mathematics, High School, Elkhart, Ind., 1892-94; Instructor in Mathematics, High School, Sioux City, Iowa, 1894-95; Graduate Student in Mathematics, University of Chicago, 1896-99; Vice President and Instructor in Mathematics, Grand Prairie Seminary, Onarga, Ill., 1899-1900; Instructor in Mathematics, Illinois College, 1900-1901; Assistant Professor of Mathematics, Illinois College, 1901-1902; Acting Dean, 1902.

FREDERICK SMITH HAYDEN, College Chaplain,

*Professor of Philosophy and Biblical Literature.*

A. B., Yale University, 1869; D. B., *ibid.*, 1874; D. D., Illinois College, 1891; Lecturer on Theism and Evidences of Christianity, Illinois College, 1899-1902.

JAMES WILLIAM PUTNAM, Registrar,

*Assistant Professor of History and Political Science.*

B. S., Illinois College, 1894; Ph. B., *ibid.*, 1897; A. M., *ibid.*, 1898; Graduate Student, University of Chicago, 1895, 1897, 1900, and 1901; Instructor in History and German, Whipple Academy, 1895-98; Instructor in History and Political Science, Illinois College, 1898-

1901; Assistant Professor of History, Illinois College, 1901—. Absent on leave, 1902-1903.

IRVING ELGAR MILLER,

*Assistant Professor of Philosophy.*

A. B., University of Rochester, 1894; A. M., *ibid.*, 1898; Principal of Union School, Ontario, N. Y., 1894-95; Professor of Mathematics, Colby Academy, New London, N. H., 1895-99; Graduate Student in Philosophy, University of Chicago, 1899-1901; Fellow in Philosophy, *ibid.*, 1900-1901; Assistant Professor of Philosophy, Illinois College, 1901-1902.

JOSEPH HALL HART,

*Assistant Professor of Physics.*

A. B., Yale University, 1898; Ph. D., Yale University, 1900; Instructor in Physics, Yale University, 1899-1900; University of Chicago, 1900-1901; Assistant Professor of Physics, Illinois College, 1901—.

CHARLES HENRY RAMMELKAMP,

*Assistant Professor of History.*

Ph. B., Cornell University, 1896; Ph. D., Cornell University, 1900; Fellow in American History, Cornell University, 1896-97; Instructor in American History, *ibid.*, 1897-1900; Student, University of Berlin, 1900-1901; Instructor in History, Leland Stanford, Jr., University, 1901-1902.

MARTIN HENRY HAERTEL,

*Assistant Professor of German.*

B. S., St. Charles College, 1895; Instructor in German and French, Red Wing Lutheran Seminary, Red Wing, Minn., 1898-1900; Graduate work in German Philology and Literature, University of Chicago, Summers 1898, 1900, 1900-1901; Ph. B., University of Chicago, 1901; Instructor in German, Illinois College, 1901-1902.

EDWARD EARNEST RUBY,

*Assistant Professor of Romance Languages.*

A. B., Indiana University, 1897; A. M. *ibid.*, 1901;

Tutor in Greek, Indiana University, 1897-98; Tutor in French, *ibid.*, 1898-99; Instructor in French, *ibid.*, 1900-1901; Instructor in Latin, Illinois College, 1901-1902.

RUPERT FRANZ ASPLUND,

*Principal of Whipple Academy; Instructor in Latin.*

A. B., Illinois College, 1896; Instructor in Whipple Academy, 1898-1900; Principal Whipple Academy, 1901-1902.

WILLIAM MATHER LEWIS,

Principal Whipple Academy,

*Instructor in English and Oratory.*

A. B., Lake Forest University, 1900; Student, Cum-nock School of Oratory, 1899-1900; Student, Emerson College of Oratory, 1901; Fellow in English, Illinois College, 1900-1901; Instructor in English and Oratory, Illinois College, 1901—.

JOHN MARTIN REDPATH,

*Instructor in Greek.*

A. B., University of Chicago, 1901; Assistant Instructor High School, Helena, Mont., 1897-98; Private Tutor, Chicago, and Student, University of Chicago, 1899-1901; Instructor in Greek, Illinois College, 1902.

FRANK PARSONS NORBURY,

*Lecturer on Psycho-Physics.*

M. D., Long Island College Hospital, 1888; Resident Physician, Pennsylvania Institution for Feeble Minded Children, 1888; Assistant Physician Illinois Central Hospital for the Insane, 1888-93; Lecturer on Nervous and Mental Diseases, Keokuk Medical College, 1893; Professor of Nervous and Mental Diseases, St. Louis College of Physicians and Surgeons from 1894; Lecturer on Cranio-Cerebral Anatomy and Surgery in Woman's Medical College, St. Louis, 1894; Associate Editor of the Medical Fortnightly of St. Louis; Lecturer on Psycho-Physics, Illinois College 1894-1902.



# REQUIREMENTS FOR ADMISSION

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## GENERAL STATEMENT.

All candidates for admission to college must offer satisfactory testimonials of good moral character. Those who have been members of other colleges must present certificates of honorable dismissal.

Candidates for admission to the Freshman class will be examined on twelve units of preparatory work. A unit is the amount of work usually accomplished in a subject by one daily recitation during one school year. In every case, however, the time assigned is simply for convenience, and the work outlined must be fully completed whether the time taken be more or less than that in the estimate.

The subjects which must be offered for admission, and the number of units in each are:

English	-	-	-	2 units.
Mathematics	-	-	-	3 units.
History	-	-	-	1 unit.
Physics	-	-	-	1 unit.
Elective	-	-	-	3 units.

The elective units may be taken from the following:

Latin	-	-	2, 3, or 4 units.
Greek	-	-	1 or 2 units.
German	-	-	1 or 2 units.
French	-	-	1 or 2 units.
History	-	-	1 unit.
General Biology	-	-	1 unit.

Botany	-	-	-	-	1 unit.
Zoology	-	-	-	-	1 unit.
Physiology	-	-	-	-	1 unit.
Geology	-	-	-	-	1 unit.
Physiography	-	-	-	-	1 unit.
Chemistry	-	-	-	-	1 unit.

Candidates who intend to take Group I, II, or III must offer four units of Latin. Those who intend to take Group IV must offer three units of foreign language at least two of which must be Latin. Those who intend to take Group V or VI must offer two units of either Latin, German or French.

#### DETAILS OF SUBJECTS.

The following statements indicate the ground expected to be covered in the study of the various subjects accepted for admission.

#### ENGLISH.

*Composition and Rhetoric.* English Grammar, with special attention to the correction and analysis of sentences; Whitney, Lockwood, or an equivalent. In Rhetoric and Composition, any high school Rhetoric such as Hill, Kellogg, or Williams will be sufficient. Each candidate will be expected to write a short theme on some subject chosen from the books mentioned below. The treatment of the topic is designed to test the candidate's ability to express himself simply, clearly and accurately. No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, or division into paragraphs.

*Literature.* (a) A careful knowledge of the following works, or their equivalent. The examination will be upon subject matter, form, and structure. Shakespeare's *Macbeth*; Milton's *Comus*; *Lycidas*; *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

(b) A general knowledge of the subject matter of the Sir Roger De Coverly Papers in the *Spectator*; Pope's *Iliad*, books I, VI, XXII, and XXIV; Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *Last of the Mohicans*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

Attention is called to the fact that the right is reserved to regard all examination papers, upon whatever subject, as part of the English examination.

#### MATHEMATICS.

*Algebra.* Fundamental operations, factoring, highest common factor, lowest common multiple, fractions, simple equations of the first degree, inequalities, indeterminate equations, theory of exponents, square roots, radicals including imaginaries, quadratic equations, special forms of higher equations, ratio and proportion, arithmetical and geometrical series and binomial theorem for any rational exponent.

Accuracy, rapidity, and freedom from working by rule are desired.

*Geometry.* Plane, solid, and spherical geometry. A thorough understanding of the fundamental theorems, ability to solve and prove original exercises

and theorems and accuracy and acuteness in thinking rather than mere geometrical facts are desired.

#### FOREIGN LANGUAGES.

*Latin.* (a) A standard beginner's book in Latin, and four books of Caesar; Latin composition.

(b) Six orations of Cicero; Latin composition.

(c) Fifteen hundred lines of Ovid, and four thousand lines of Virgil.

The work indicated under (a) may be offered as two units, (a) and either (b) or (c) as three units, and (a), (b), and (c) as four units.

*Greek.* (a) White's First Greek Book, or equivalent.

(b) Xenophon's Anabasis, Books I, II, and III; Greek Prose Composition.

*German.* (a) Pronunciation, inflection of the parts of speech, the elementary rules of syntax and word order, and seventy-five to one hundred pages of graduated text.

(b) The reading of from one hundred and fifty to two hundred pages of literature in the form of easy stories and plays, translation into German of matter based upon the works read, and continued grammatical drill.

*French.* (a) Essential of French grammar as far as contained in Fraser and Squair's French Grammar, or equivalent.

(b) Careful reading of not less than two hundred duodecimo pages from French authors. Special emphasis will be placed on correct pronunciation and the mastery of irregular verbs.

## HISTORY.

*Greek and Roman History.* Greek History to the death of Alexander, and Roman History to the fall of the Western Empire. Botsford's History of Greece, and Allen's Short History of the Roman People, or equivalents, with supplementary reading.

*English and American History.* English History with due reference to social and political development, and American History with the elements of Civil Government. Montgomery's English History and McLaughlin's History of the American Nation, or equivalents, with supplementary reading.

Either of these two divisions may be offered as one unit in History required of all candidates for admission.

## PHYSICS.

The elements of Physics as presented in such text books as Gage's, or Carhart and Chute's Elements of Physics. The candidate must have had laboratory practice equivalent to that described in the laboratory text-book of Chute.

## GENERAL BIOLOGY.

One year's study of typical animals and plants by the laboratory method, covering the facts of morphology and physiology. This requirement may be met by a course such as is laid down in Jordon and Kellogg's Animal Life and Coulter's Plant Relations.

*Botany.* A year's work may be offered in Botany. The work should cover the ground of Coulter's

Plant Structures and Plant Relations, or equivalent texts.

*Zoology.* A year's work in Zoology may be offered covering the ground of Pratt's Invertebrate Zoology, or equivalent text, and Jordan's Animal Life.

Accurate notes and drawings should be made by the student.

*Physiology.* A year's work based on the standard texts as Overton's, Martin's, or equivalent. Experiments should be performed and a laboratory note book kept, as a feature of work.

#### GEOLOGY.

A general knowledge of the structures and history of the earth, the agencies which modify the earth's surface, a study of the more common rocks and the study of strata, a survey of the earth's history, and the development of life through geologic ages. A year's work based on such texts as Tarr's Elementary Geology, or Scott's Introduction to Geology. The text should be supplemented by conferences, field excursions, etc., and accompanied by as much laboratory work as possible.

#### CHEMISTRY.

Acquaintance by laboratory work with the properties of substances common to Chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on relations expressed by for-



mulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry.

The laboratory note-book must be presented at the time of examination.

#### ADVANCED STANDING.

Students who come from other colleges of recognized rank may receive such advanced standing as their certificates from these institutions may warrant. Such certificates must contain definite statements of the amount and character of work done, both preparatory and collegiate. If these credentials are satisfactory to the matriculation committee, the student will be given a corresponding amount of credit on the college records.

#### ADMISSION BY CERTIFICATE.

Under certain conditions specified below, certificates of preparatory schools may be accepted in place of examination for admission. The privilege of sending students by certificate may be granted to a school which requests it, provided the faculty has such an acquaintance with the work of the school as will warrant granting the request.

Certificates must be made out on blanks furnished by the college in accordance with instructions contained therein. They must contain an explicit statement of the work done by the candidate and the time devoted to it. If the work covered by the certificates is materially less than the amount required for admission, or if the time devoted to a given sub-



ject is inadequate, the certificate will not be accepted for the subject in which the deficiency occurs, but it will remain valid for the other subjects.

#### MATRICULATION.

All candidates for admission must present themselves before the matriculation committee not later than 10 a. m. of the first Tuesday of the semester. Those presenting satisfactory certificates from secondary schools will be granted certificates of matriculation without examination. Those without satisfactory certificates will have assigned them the subjects in which they are to be examined, and the place and time of such examinations.

# COURSES OF INSTRUCTION.

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## BIBLICAL LITERATURE.

IRVING E. MILLER, Assistant Professor.

Systematic courses in the study of the English Bible are offered each year open to all students of the College. The purpose is to give the student a general historical knowledge of the Bible, with special emphasis on the life and teachings of Christ.

1—*Beginnings of Hebrew History.* 1 hour  
Entire year.

Study of the ancient civilizations which form the background of Jewish life; interpretation of the testimony furnished by the monuments and other records, in their relation to the Hebrew people.

2—*Hebrew History and Literature.* 1 hour  
Entire year.

Political, social, and religious life of the people; their settlement in Canaan; division of the kingdom; connection with the great political movements between 937 and 586 B. C.; work of the Hebrew prophets.

3—*New Testament History and Literature.* 1 hour  
Entire year.

Study of Roman and Jewish life about the time of Christ; laws and customs, which, form a back ground to the New Testament teachings; literature bearing on Jewish and Christian life.

4—*Life of Christ.* 1 hour  
Entire year.

Study of Christ's life as revealed in the four gospels; His teachings; the organization and development of His church.

## BIOLOGY.

JAMES BERTRAM OVERTON, Professor.

The courses in Biology are designed to give a general knowledge of the fundamental facts and principles of organic life, and to make clear the subject-matter of these sciences as far as possible. They are intended to meet the needs of a general education, and also to serve as a preparation for those students who are shaping their studies with a view to future work in medicine.

1—*Morphology. (Botany).*

5 hours

First Semester.

This course is intended to illustrate the general principles of Biology as well as to serve as an introduction to the study of Botany. The work deals with general morphology and outlines of classification. Selected types of Thallophytes, Bryophytes, Pteridophytes, and Spermatophytes are chosen, special emphasis being placed on evolution of sex, lines of development, alternation of generations, etc.

Two lectures, or recitations, with six hours laboratory work per week.

Text: Coulter, Plant Structures.

2—*General Morphology. (Zoology).*

5 hours

Second Semester.

This course aims to study representative types of animals, emphasis being placed on invertebrate morphology, anatomy, classification, distribution, and habits. The course endeavors to meet the needs of a general knowledge of Zoology and to furnish the basis of more advanced work. The course covers about the same field in the animal kingdom as is covered in the plant kingdom by Course 1. Types of Protozoa, Coelenterata, Platyhelminthes, Nematoda, Echinodermata, Mollusca, Annelida, and Arthropoda are studied.

Two lectures, or recitations, and six hours laboratory work per week.

Text: Thompson, Outlines of Zoology.

### 3—*Plant Physiology.*

5 hours

First Semester.

This course presents the more general physical and chemical principles of plant functions, such as absorption, transpiration, photosynthesis, respiration and growth. An elementary knowledge at least of Physics and Chemistry is a necessary antecedent to this course. The laboratory work is largely experimental.

Two lectures, or recitations, and six hours laboratory work per week.

Prerequisite: Course 1.

Text: Green, Vegetable Physiology.

Not given in 1902-1903.

### 4—*General Ecology.*

5 hours

Second Semester.

This course treats of plants in relation to their environment. A study of plant organs is made in relation to their nutritive, reproductive and protective functions. As much time also is given to the microscopic study of the tissues adapted for absorption, conduction, synthesis, transpiration, etc., as the course permits. A study of the various plant societies, and the factors which influence their distribution, migration, etc., is made in the field.

Two lectures, or recitations, and six hours laboratory work per week.

Text: Coulter, Plant Relations.

### 5—*Vertebrate Anatomy.*

5 hours

First Semester.

This course is a continuation of Course 2. It includes a detailed study through dissection of an Ascidian,

Balanoglossus, Amphioxus, Frog, and other types if time permits. The vertebrate characters, embryology, and histology will be considered.

Two lectures, or recitations, with six hours laboratory work per week.

Prerequisite: Course 2.

Texts: Parker and Haswell, Text-book of Zoology; Marshall, The Frog.

## CHEMISTRY.

J. BISHOP TINGLE, Professor.

The courses of instruction are based entirely on the individual work of the student in the laboratory, and are intended to develop his reasoning and observational powers in order to enable him to regard his surroundings in a rational and scientific manner. Thus far it is simply a mental discipline. Its secondary aim is to impart a knowledge of the fundamental principles of the science, and to attain, as far as possible, familiarity with the properties of the more important substances and facility in their manipulation. Such work will necessarily be of great benefit, both directly and indirectly, to students who intend subsequently to become engineers, physicians, lawyers, agriculturists, or to follow any branch of pure or applied science.

1—*General Chemistry.*

5 hours

First Semester.

Physical and Chemical change. States of matter, elements, and compounds. Study of the following elements and of their more important derivatives: oxygen, hydrogen, nitrogen, carbon, fluorine, chlorine, bromine, iodine, sulphur, phosphorus, silicon, boron. The simpler laws of chemical combination. Special attention is given to the subjects of the atmosphere and water. A number of easy numerical problems will be set for solution.

Texts: Richter, Inorganic Chemistry, Trans. by E. F. Smith; Waddell, Arithmetic of Chemistry.

2—*General Chemistry.*

5 hours

Second Semester.

Continuation of Course 1.

Study of the following metals and of their more important compounds: sodium, potassium, silver, copper, magnesium, calcium, strontium, barium, zinc, cadmium, mercury, aluminum, tin, lead, iron, arsenic, antimony, bismuth, manganese, chromium, iron, nickel, cobalt, gold. The rare elements and the metals of the platinum group are also considered. Stress is laid on those substances of particular importance in technology, medicine, and the arts, and the learning of recent theories is indicated in an elementary manner.

Texts: Vide Course 1.

4—*Introductory General Chemistry.*

3 hours

Second Semester.

The work of this course is almost wholly laboratory in its nature, the subjects treated being those outlined in Course 1, but treated in a more elementary manner. It is primarily intended for students whose work is chiefly non-scientific. It also forms a good introduction to the more extensive courses.

Text: Remsen, Briefer Course of Chemistry.

5—*Qualitative Analysis.*

5 hours

First Semester.

Tests are made by each student for the recognition and separation of metals mentioned in Course 2, and of radicals derived from elements enumerated in Course 1. After the examination of easy mixtures, the analysis of more complex substances is made, including that of minerals and alloys of industrial importance. Lectures are given on the principles and theory of analysis.

Prerequisite: Courses 1 and 2.

Texts: Jones, Junior Course of Practical Chemistry;  
Van Deventer, Physical Chemistry.

6—*Qualitative Analysis.*

5 hours

Second Semester.

Continuation of Course 5.

The work includes the analysis of plant ashes, tests for organic acids and bases, the detection of other organic substances of special interest to medical students, and the examination of food, etc., for poison. Selected parts of chemical theory are studied, and periodicals and works of reference frequently consulted.

Texts: Vide Course 5.

7—*Quantitative Analysis.*

5 hours

First Semester.

Operations of weighing and measuring. The student purifies and analyzes a few simple salts so as to be familiar with the more usual conditions under which gravimetric analyses are performed. Volumetric methods are also practiced as far as time permits. The studies in chemical theory are continued from Course 4. Collateral reading of periodicals and works of reference is required.

Texts: Vide Course 5.

8—*Quantitative Analysis.*

5 hours

Second Semester.

Continuation of Course 7.

After completion of the volumetric work, substances of greater complexity are examined, including food, water, and technical products. The work is arranged as far as possible to satisfy each student's special interest. The student is called upon to present to the class



the results of his particular study of some topic which he has selected with the advice of the professor.

Text: Clowes and Coleman, Quantitative Analysis.

9—*Organic Chemistry.*

5 hours

Composition, sources and general properties of organic compounds. Hydrocarbons of the methane, ethylene and acetylene series. Substitution and oxidation products. Alcohols, aldehydes, acids. Fats, soaps, and carbohydrates. Compounds of carbons containing elements other than oxygen, hydrogen and the haloids. Methods of determining molecular weights. General theoretical relationships.

Prerequisite: Course 8.

Text: Wade, Introduction to the Study of Organic Chemistry.

10—*Organic Chemistry.*

5 hours

Second Semester.

Continuation of Course 9.

Hydrocarbons with closed chains. Benzene and its constitution. The chief classes of benzene derivations with special reference to those of technical importance. The simpler dyes. Napthalene and more complex compounds. Alkaloids. Organic synthesis. Correlation of the properties and constitution of organic compounds. General theory.

Texts: Vide Course 9. Meyer, Determination of Radicles in Carbon Compounds.

ENGLISH.

J. GRIFFITH AMES, Professor.

WM. M. LEWIS, Instructor.

The work in this department is arranged upon a plan that first gives the student a general survey of the his-

tory of English and American Literatures from their beginnings to the present day. After these preliminary courses, more definite and minute study is bestowed upon courses that center in the most significant periods of those histories. In addition to these, courses are given in Rhetoric and Composition.

MR. LEWIS.

1—*Rhetoric.* 2 hours

First Semester.

Practical work in the study of Rhetoric by the application of its principles to the writing of themes in Narration, Description and Exposition. Criticism of short themes in the classroom. Frequent consultations.

Text: A. S. Hill, Principles of Rhetoric.

PROF. AMES.

2—*American Literature.* 2 hours

Second Semester.

An outline course, with as much classroom and supplementary reading as possible. A study of the chief authors from the Colonial Period to the present day, with especial attention to Longfellow, Hawthorne, Poe, Emerson, and Holmes. Frequent written reports. Recitations and lectures.

Text: Pancoast, Introduction to American Literature.

3 and 4—*History of English Literature.* 3 hours

Entire year.

An outline course, with as much supplementary reading as possible. The most important authors from the Anglo-Saxon Period to the present day. The various periods and influences are discussed in connection with

the works of writers typical of each period. The aim of the course is to awaken in the student an interest in English Literature, and to direct him in his search for what is best and noblest in that literature. Fortnightly written reports.

Text: Halleck, History of English Literature.

5—*English and Scotch Popular Ballads.* 3 hours

First Semester.

Extensive reading in the old ballads of England and Scotland. Lectures on the origin, form, source, style, authorship, distribution, etc. Fortnightly reports.

Text: F. B. Gummere, English and Scotch Ballads.

Omitted in 1902-3.

6—*Sixteenth Century Literature.* 3 hours

Second Semester.

Lectures on the history of English Literature from the Revival of learning to Milton, exclusive of the Drama. The chief works of Wyatt, Surrey, Spencer, Sidney, Hooker, Bacon, and Lyly are read. Supplementary reading. Fortnightly written reports.

Reference Book: Saintsbury, Elizabethan Literature.

Omitted in 1892-3.

7—*Composition.* 2 hours

First Semester.

Constant drill in written expression based on a study of American prose authors, (Franklin, Irving, Hawthorne, and Poe). At first very short themes are written daily, then tri-weekly, and later gradually lengthened and required less frequently. Lectures on the principles of composition. Study of styles. Criticism of themes in the classroom. Weekly individual consultations.

Text: Genung, Handbook of Rhetorical Analysis.

8—*Composition.*

2 hours

## Second Semester.

Advanced work. Themes are less frequent and longer than in Course 7. Weekly exercises in popular and literary subjects. Cultivation of individual style. Study of the short story. Lectures by the instructor. Consultations.

Prerequisite: Courses 1 and 7.

Reference Book: Wendell, English Composition.

9—*Eighteenth Century Poetry.*

3 hours

## First Semester.

Lectures, biographical and critical. The first few weeks are devoted to the study of Dryden and Pope and to the growth and characteristics of the Classical School. The beginnings of the Romantic Movement in poetry. Extensive supplementary reading; Dryden, Gay, Pope, Prior, Thompson, Collins, Young, Gray, Goldsmith, Beattie, and Cowper are the poets studied. Fortnightly written reports.

Reference Books: Gosse, Eighteenth Century Literature; Beers, English Romanticism in the XVIII Century; Phelps, Beginnings of the English Romantic Movement; Garnett, Age of Dryden; Dennis, Age of Pope.

10—*Nineteenth Century Poetry.*

3 hours

## Second Semester.

A continuation of Course 9. The development of the Romantic Movement and the Poetry of Revolt is further traced through the poetry of Burns, Blake, Scott, Coleridge, Wordsworth, Byron, Shelley, Keats, and Tennyson. The poetry of Arnold, Morris, Rossetti, and Swinburne is also studied if time permits. Lectures by the instructor. Weekly written reports.

Prerequisite: Course 9.

Additional Reference Books: Saintsbury, Nineteenth Century Literature; Herford, Age of Wordsworth; Walker, Age of Tennyson.

*11 and 12—The English Novel.*

5 hours

Entire year.

The history and development of English Prose Fiction from 1485 to the present day. Brief outline of Continental Prose Fiction before 1485. Extensive reading of the best works of the masters of English novel writing. Study of styles, methods, movements, and schools. Weekly written reports. Lectures by the instructor.

Reference Books: Tuckerman, History of English Prose Fiction; Wm. Forsyth, Novels and Novelists of the XVIII Century; Dunlap, History of Fiction; Raleigh, The English Novel.

*13—Chaucer.*

3 hours

First Semester.

A study of the literature of the Fourteenth Century. The Renaissance. Chaucer's Prologue and certain of the Canterbury Tales. Linguistic as well as literary study.

Text: W. W. Skeat, The Student's Chaucer.

*14—Middle English.*

3 hours

Second Semester.

A literary as well as linguistic study of prose and poetry from the late Anglo-Saxon of the 12th Century to Chaucer and his contemporaries of the 14th. The order of reading is from the later and consequently easier to the earlier and more difficult.

Prerequisite: Course 13.

Text: Morris and Skeat, Specimens.

*15—Pre-Shakespearean Drama.*

2 hours

First Semester.

A study of the origin, structure and evolution of the

English Drama from the Mysteries, Miracles, Moralities, and Interludes, through Roister Doister, King Johan, and Gorboduc, Peele, Nash, Lyly, Kyd, and Marlow, to Shakespeare. Fortnightly written reports. Lectures by the instructor.

Text: Manley, *Specimens of Pre-Shakespearean Drama*. 2 vols.

16—*Shakespeare*. 2 hours

Second Semester.

Critical, textual, and literary study of selected plays: 2nd Henry IV, Twelfth Night, Julius Caesar, Lear, Hamlet, The Tempest. Supplementary reading. Lectures on the life, times, and genius of Shakespeare.

Texts: Rolfe's edition of Shakespeare's Plays.

17 and 18—*Anglo-Saxon*. 2 hours

Entire year.

Elementary study of the prose and early poetry, with much attention to the literary as well as linguistic side of the subject. Anglo-Saxon grammar. During the second half of the year Anglo-Saxon versification, scansion, etc. West Saxon prose selections. Poetry; The Battle of Maldon, The Wanderer, The Battle of Brunanburh, and parts of the Phoenix.

Text: Bright, *Anglo-Saxon Reader*; Cooke, *Old English Grammar*.

19—*Literary Criticism*. 2 hours

First Semester.

A course designed to help students to understand why admired works of literature are admirable, and thus to lead them to form correct opinions for themselves instead of carelessly accepting traditional authorities.

20—*Mythology*. 2 hours

Second Semester.

A study of Greek, Roman, and Norse Mythologies, especially in their relations to English Poetry.

## GERMAN.

MARTIN H. HAERTEL, Assistant Professor.

The objects to be attained in these courses are correctness of pronunciation, thorough knowledge of the structure of the language, and an introduction to its literature. German is made, as soon as possible, the language of the class-room.

1—*Elementary.* 5 hours

First Semester.

Thomas' Practical German Grammar is the basis of the course. The forms and syntax are impressed upon the student's mind by daily drill in translation of English into German. Simple reading matter is introduced very early in the course.

Texts: Thomas, Practical German Grammar; Vos, Materials for German Composition.

2—*Elementary.* 5 hours

Second Semester.

A continuation of Course 1.

Texts: Stern, Geschichten vom Rhein; Storm, Immensee; Drei Kleine Lustspiele (Ed. Wells).

3—*Intermediate.* 5 hours

First Semester.

The first part of the course consists of a thorough drill in composition. A beginning is made in the reading of German classics.

Texts: Von Jagemann, Elements of German Syntax; Von Jagemann, Materials for German Prose Composition; Heine, Die Harzreise.

4—*Intermediate.* 5 hours

Second Semester.

A reading course in Schiller.

Texts: Der Neffe als Onkel, Wilhelm Tell, Maria Stuart.



5—*Advanced*. 3 hours

First Semester.

A reading course in Lessing. The reading is supplemented by lectures on the position of Lessing in the literary history of Germany.

Texts: Emilia Galotti, Nathan der Weise.

6—*Advanced*. 3 hours

Second Semester.

A reading course in Goethe, supplemented by lectures.

Texts: Iphigenie; Faust, Part I.

## GREEK.

MILTON E. CHURCHILL, Professor.

The work of this department is so arranged as to include courses in the elements of the language in addition to those usually pursued in the Freshman and Sophomore years. To the three years required of classical students, are added four elective courses in the Senior year, such authors being chosen for study as will afford a fairly comprehensive view of the various forms of Greek Literature.

1—*Elementary Greek*. 5 hours

First Semester.

Drill in forms, vocabularies, and simple syntax, with constant practice in oral and written translation from Greek into English, and English into Greek.

Text: White, First Greek Book.

2—*The Anabasis*. 5 hours

Second Semester.

Books I and II, with daily exercises in composition based upon the text.

Prerequisite: Course 1.

Texts: Goodwin and White, *Anabasis*; Goodwin, *Greek Grammar*; Woodruff, *Prose Composition*.

3—*Anabasis and Iliad*.

5 hours

First Semester.

The work in the *Anabasis* is a continuation of Course 2, Books III and IV being read and the composition work being continued through the first half of the semester. The second half of the semester is given to the *Iliad*, with the study of Homeric forms, metrical reading, and mythology.

Prerequisite: Course 2.

Texts: Seymour, *School Iliad*, Books I-VI; Gayley, *Classic Myths*.

4—*The Iliad and Odyssey*.

5 hours

Second Semester.

A continuation of Course 3. The completion of six books of the *Iliad*, followed by the reading of the *Odyssey*. Special stress is laid upon sight reading and rapid translation.

Prerequisite: Course 3.

Texts: Perrin, *Odyssey*, Books I-IV, College Edition; Teubner Text of the *Odyssey*, Keep-Autenrieths' *Homeric Dictionary*.

5—*Lysias and Xenophon*.

5 hours

First Semester.

Selected oration of Lysias, with a review of Attic forms and syntax, and exercises in composition based upon the text. Following this, selections from the *Memorabilia*.

Prerequisite: Course 4.

Texts: Morgan, *Lysias*; Winan, *Memorabilia*.

6—*Plato.* 5 hours

Second Semester.

The Apology and Crito, with selections from the Phaedo.

Prerequisite: Course 5.

Text: Dyer, Apology and Crito.

7—*The Drama.* 5 hours

First Semester.

Selected plays of Euripides and Sophocles. The origin and development of the drama; the Attic theatre, its construction, maintenance, and place in Athenian life.

Prerequisite: Course 6.

8—*The Drama.* 3 hours

Second Semester.

A continuation of Course 7, including a play of Aeschylus and the Clouds of Aristophanes.

Prerequisite: Course 6.

9—*The Orators.* 2 hours

First Semester.

Demosthenes. The reading of the Oration on the Crown, with a study of constitutional antiquities.

Prerequisite: Course 6.

10—*The Historians.* 2 hours

Second Semester.

Thucydides, with selections from Herodotus.

Prerequisite: Course 6.

## HISTORY AND POLITICAL SCIENCE.

J. W. PUTNAM, Assistant Professor.

In this department are included the courses in History, Politics, and Economics, grouped under the two heads of History and Political Science. A minimum amount of collateral reading is required in all courses, the results of which are presented in written reports. In American History, each student is given some practice in working on original sources.

## HISTORY.

*1—Mediævel History.*

4 hours

First Semester.

The history of Europe from the latter part of the fourth to the close of the fifteenth century. The course deals with the Migrations, the Teutonic states, the Christian church, Feudalism, the Crusades, and the Renaissance.

*2—Modern History.*

4 hours

Second Semester.

The period covered extends from the Renaissance to the beginning of the French Revolution and includes the Protestant Reformation, the Roman Catholic Reaction, the foundation and organization of modern states, the Thirty Years' War, and the military and diplomatic events of the seventeenth and eighteenth centuries.

Prerequisite: Course 1.

3—*French Revolution and Napoleonic Era.* 3 hours

First Semester.

The course includes the history of all the important countries of Europe between 1789 and 1815; but particular attention is given to the revolution in France and the consequent international complications, and to the rise and overthrow of the power of Napoleon.

Prerequisite: Course 2.

4—*Europe in the Nineteenth Century.* 3 hours

Second Semester.

The course begins with the political re-adjustment of Europe by the Congress of Vienna and follows the struggles of the various states for more liberal governments. It closes with a study of the present political, social and industrial conditions of the leading European countries.

Prerequisite: Course 3.

5—*English History.* 3 hours

First Semester.

The history of England from the Anglo-Saxon conquest to the accession of Henry VIII. Although the course deals primarily with the political history of the period, considerable attention is given to the constitutional, economic and intellectual development.

6—*English History.* 3 hours

Second Semester.

A continuation of course 5 from 1509 to 1890. Particular attention is given to the English Reformation, the Stuart period, the rise of cabinet government, the political and industrial reforms, and the development of colonial government.

7—*American History.* 5 hours

## First Semester.

A rather hasty view of colonial life and government followed by a detailed study of the confederation, the framing and adoption of the constitution, and the organization and progress of the government to 1817.

8—*American History.* 5 hours

## Second Semester.

A continuation of course 9, including the growth of nationality, the development of the West, the slavery struggle in its various phases, the civil war with special reference to the constitutional changes wrought by it, and the reconstruction of the South

Prerequisite: Course 7.

## POLITICAL SCIENCE.

1—*Economics.* 3 hours

## First Semester.

The analysis of modern industrial society and the derivation of the principles of economic science as exemplified by the facts of economic history.

2—*Public Finance.* 3 hours

## Second Semester.

A study of the general principles which determine public income and expenditures, with special attention to taxation in the United States.

Prerequisite: Course 1.

3—*Economic History.* 2 hours

## First Semester.

A study of the industrial history of England and the United States as a basis for a more intelligent interpretation of present economic conditions.

4—*Money and Banking.*

2 hours

Second Semester.

Some of the chief topics considered are, the functions of money, the standard, laws of token money, legal tender, the history of gold and silver money in the United States; the nature and functions of a bank, discounts and deposits, note issues, bank reserves, history of the national banking system, government issues, and history of United States notes.

Prerequisite: Course 1.

5—*Comparative Politics.*

3 hours

First Semester.

A study of the governments of Greece, Rome, the mediaeval European states, and the leading countries of the present time.

6—*International Law.*

3 hours

Second Semester.

This course is historical and explanatory of present international relations. It treats of the origin and development of the rules that generally govern the intercourse of modern civilized states, the important European treaties since 1648, and the subjects of present interests in American Diplomacy.

## LATIN.

F. W. SANFORD, Professor.

In the work of the Freshman year the student's attention is directed to the subject of Latin style more closely than is possible in the preparatory school. Special emphasis is placed upon accurate translations



into idiomatic English. Some time is given to sight translation throughout the year and to prose composition based on Cicero and Livy.

In the work of subsequent years more attention is paid to the authors read as interpreters of Roman life in their respective periods; in connection with this work a limited amount of collateral reading in Roman history is assigned.

1—*Cicero and Livy.* 5 hours.

First Semester.

Cicero's *De Amicitia*, in connection with which Cicero's place in Roman philosophy is briefly considered; Livy, Book I, with assigned reading on the credibility of early Roman history; selections from Books XXI and XXII. Prose composition.

2—*Lyric Poetry.* 5 hours.

Second Semester.

Horace, selections from the Odes and Epodes, 12 weeks; Catullus, 6 weeks; daily practice in reading aloud. Collateral work, Preston and Dodge, *Private Life of the Romans*.

Prerequisite: Course 1.

3—*Tacitus and Suetonius.* 4 hours.

First Semester.

Tacitus, *Agricola* and selections from the *Annals*; sight translation of the *Dialogus de Oratoribus*; Suetonius, *Life of Augustus*, sight translation.

Prerequisite: Course 2.

4—*Comedy.* 4 hours.

Second Semester.

Plautus, two plays; Terence, one play; sight translation of one play of each author.

Prerequisite: Course 3.

5—*Epistolary Latin.*

3 hours

First Semester.

Cicero, selected letters, studied particularly for their contribution to certain portions of Roman history in the last year of the Republic; Pliny, selected letters, studied as illustrating the life of a Roman gentleman, official and man of letters under the early Empire.

Prerequisite: Course 4.

6—*Satire.*

3 hours

Second Semester.

Selections from Horace, Juvenal and Persius; Martial, assigned reading of different epigrams to be presented in class by individual members.

Prerequisite: Course 5.

7—*Latin Prose of the Empire.*

2 hours

First Semester.

Gudeman's selections; a rapid reading course designed to give the student some acquaintance with authors not commonly read and not introduced in other courses of this department.

Prerequisite: Course 6.

8—*Latin Poetry of the Empire.*

2 hours

Second Semester.

Gudeman's selections; a rapid reading course with the same purpose as course 7.

Prerequisite: Course 6.

9—*Philosophy.*

2 hours

First Semester.

A brief study of Mayor's Ancient Philosophy followed by the reading of selections from Lucretius, Cicero and

Seneca; part of the reading in the original, part in translations.

Prerequisite: Course 6.

10—*Philosophy.* 2 hours

Second Semester.

A continuation of Course 9.

Prerequisite: Course 9.

11—*Roman Private Life.* 2 hours

First Semester.

A more extended treatment of the subject than is given in the Freshman year. Among the subjects considered are, the Roman family, business life, education, amusements, houses, dress, meals, baths, etc.

Prerequisite: Course 4.

12—*Epigraphy.* 2 hours

Second Semester.

An elementary course, the principles of the subject briefly considered, followed by much practice in reading inscriptions from Willmanon's *Exempla Inscriptionum Latinarum*.

Prerequisite: Course 4.

## MATHEMATICS AND ASTRONOMY.

F. M. MORRISON, Professor.

The courses in mathematics are designed to give, besides the inherent discipline, a foundation for further work in the pure science and in some applied lines, such as Engineering, Physics and Astronomy.

A sequence of three or four years work is offered, depending upon the line selected.

In astronomy one course of a descriptive nature is given for the general student, and a second as a foundation for work in mathematical astronomy.

1—*College Algebra.*

4 hours

One half of First Semester.

Quadratic equations, development of functions in series, partial fractions, reversion of series, binomial theorem, convergency and summation of series, logarithms, permutations and combinations, continued fractions, elementary theorems in theory of equations, elements of determinants.

Text: Wells, College Algebra.

*Plane Trigonometry.*

4 hours

One half of First Semester.

Trigonometric functions and formulae, logarithmic functions, trigonometric equations, solution of right and oblique angled triangles, DeMoivre's theorem and trigonometric series.

Text: Lyman & Goddard, Plane and Spherical Trigonometry.

2—*Analytical Geometry.*

4 hours

Second Semester.

Continuation of Course 1.

The point, right line, circle, parabola, ellipse and hyperbola in cartesian and polar coordinates; discussion of the general equation of the second degree.

Text: Tanner and Allen, Analytical Geometry.

3—*Differential Calculus.*

5 hours

First Semester.

Differentiation of functions of one and several variables, development of functions, indeterminate forms, maxima and minima of one and several variables, tangents and normals, asymptotes, direction, contact and curvature, evolutes and involutes, envelopes, singular points, curve tracing.

Prerequisite: Courses 1 and 2.

Text: McMahon and Snyder, *Differential Calculus*.

4—*Integral Calculus.*

5 hours

Second Semester.

Continuation of Course 3.

Integration of elementary forms, of rational and irrational functions, of trigonometric and exponential functions; multiple integrals; rectification of curves; quadrature of plane and curved surfaces; cubature of volumes; applications to mechanics.

Text: Murray, *Integral Calculus*.

5—*Advanced Integral Calculus.*

4 hours

First Semester.

General theory of definite integrals, Fourier series, Gamma functions, geometrical applications of definite integrals, multiple integrals with applications, introduction to elliptic integrals and functions.

Prerequisite: Courses 1, 2, 3, and 4.

Lectures.

6—*The Theory of Functions.*

4 hours

Second Semester.

The complex variable, bilinear transformation, monogenic functions, definite integrals with complex var-

iable, holomorphic functions, power series, meromorphic functions, transcendental and logarithmic functions, Riemann surfaces.

Prerequisite: Courses 1, 2, 3, 4 and 5.

Lectures.

7—*Solid Analytics.*

3 hours

First Semester.

Planes, surfaces of the second degree, sections of conicoids, generating lines of conicoids, systems of conicoids, confocal and concyclic conicoids, foci, quadriplanar and tetrahedral coordinates, introduction to theory of general surfaces.

Prerequisite: Courses 1 and 2.

Text: Smith, Solid Geometry.

8—*Modern Analytic Geometry.*

3 hours

Second Semester.

Trilinear homogeneous point and line coordinates, dual problems, anharmonic ratio, projective elements, pencils and ranges, curves of second order, poles and polars, polar triangle, degenerate conics, curves of second class, Pascal's theorem, Brianchon's theorem, pencil of conics, range of conics, foci, net of conics.

Prerequisite: Courses 1, 2, 3, and 4.

Lectures.

9—*Descriptive Astronomy.*

4 hours

First Semester.

Fundamental facts and laws, with underlying principles; general theories and modern developments; instruments and general methods.

Prerequisite: Courses 1 and 2.

Text: Young, General Astronomy.

*10—Theoretical Astronomy.*

4 hours.

## Second Semester.

History. Kinetics: general theorems, Newton's three laws of motion, motions of centres of gravity. Central forces: general theorems, Kepler's law of planetary motion, law of angular and linear velocity. Problem of two bodies: development of the ten known integrals, potential function. Solar heat: Helmholtz theory, meteoric theory. Double-star orbits.

Prerequisite: Courses 1, 2, 3, 4, and 9.

Lectures and reference reading.

*11—Analytical Mechanics.*

4 hours

## First Semester.

Elementary principles. Statics: composition and resolution of forces, conditions of equilibrium, centre of gravity, friction, virtual velocities, machines, funicular polygon, the catenary, attraction. Kinetics: motion under the action of a variable force, motion in a resisting medium, central forces, constrained motion, impact, work and energy, moment of inertia, rotary motion, motion of a system of rigid bodies in space.

Prerequisite: Courses 1, 2, 3, and 4; Physics: Courses 1 and 2.

Text: Bowser, Analytic Mechanics.

*12—Surveying.*

4 hours

## Second Semester.

Recitations; field work with transit and level; measuring angles, distances, areas; laying out of land, curves; leveling; plotting.

Prerequisite: Courses 1 and 2.

Text: Johnson, Theory and Practice of Surveying.



## ORATORY.

WILLIAM MATHER LEWIS, Instructor.

The courses in Oratory are planned with the idea of giving the student three consecutive years of work along lines which will develop his powers of clear and original expression. From the beginning course in Physical Culture to the study of Dramatics in the Senior year, the individuality of the student is emphasized and his ease and grace in delivery cultivated by careful personal instruction.

1—*Declamation.*

1 hour

First Semester.

Physical culture exercises for poise and bearing, for the vital organs, and for special muscles; correct standing, breathing exercises for the development of the vocal organs, critical study of English pronunciation, drill in reading.

2—*Declamation.*

1 hour

Second Semester.

Physical Culture. Lectures on vocal culture and the relations of the vital and vocal organs. Declamation; study of selections from American writers, simple Impersonations.

3—*Oratory.*

2 hours

First Semester.

History of Oratory. Lectures upon the lives of the great orators. Study of the principles of Oratory using as examples the work of Demosthenes, Paul, Cicero, Burke, Pitt, Webster, Lincoln, Philips. Study and analysis of Standard Deliberative, Forensic, Pulpit and Demonstrative orations. Preparation and delivery of Deliberative orations.

4—*Oratory.* 2 hours

## Second Semester.

Preparation and delivery of Demonstrative orations. Principles of argument, gathering of materials and preparation of arguments on assigned subjects. Preparation of rebuttals. Class debates.

Text: Baker, the Principles of Argumentation.

5—*Dramatics.* 1 hour

## First Semester.

Study of the History and Technique of the Drama. Character studies from contemporary authors; presentation of scenes from Shakespeare.

Text: Freytag's Technik des Dramas.

6—*Dramatics.* 1 hour

## Second Semester.

Study of the modern Drama with the public presentation of a standard play.

## PHILOSOPHY AND EDUCATION.

## IRVING E. MILLER, Assistant Professor.

The work in Philosophy is intended to be both cultural and disciplinary. The student is helped to attain points of view of his own for thinking clearly and consistently upon the vital problems of life and of thought.

The courses in Education are designed to meet the needs of those who are preparing to teach and who must meet the growing demand for teachers with professional training.

## PHILOSOPHY.

1—*Elementary Psychology.* 3 hours

## First Semester.

Study of the elementary processes of the mind, cognitive, affective, and volitional—both from the psychological and the physiological point of view. A standard text-book, such as James' "Briefer Course" or Stout's "Manual," forms the basis of the work and the point of departure for discussion.

2—*Advanced Psychology.* 3 hours

## Second Semester.

A continuation of Course 1. Detailed investigation of a few selected problems, such as the method and scope of psychology, the special senses, mental activity, attention, association and apperception, the psychology of feeling and the emotions, the will, etc. Introduction to the methods of experimental psychology. Reports of experiments and preparation of papers on assigned topics. No specific text-books will be used, but references are given to all available literature.

Prerequisite: Course 1.

3—*Comparative Psychology.* 1 hour

## First Semester.

A comparative study of the intelligence of animals from the lowest forms up to, and including, man. The sphere of instinct and reason, with varying types of development. Discussion of the theories of Morgan, Romanes, Loeb, and Mead. The work of one of these authorities is made the basis of the course, and references to the essential features of the others are given.

Prerequisite: Course 1.

*5 and 6—History of Ancient Philosophy.* 2 hours

Entire year.

This course deals with the development of thought among the Greeks and Romans especially. Windelband's *History of Ancient Philosophy* is used as a textbook, supplemented by the study of typical selections from the work of Plato, Aristotle, Seneca, Lucretius, etc.

Given in alternate years with Course 7 and 8.

*7 and 8—History of Modern Philosophy.* 2 hours

Entire year.

An outline of the development of modern thought from the Renaissance to our own times. Considerable attention is given to a few of the more important systems, such as those of Descartes, Locke, Berkeley, Hume, Kant, and Hegel. Selections from the authors themselves are studied critically with a view to getting clear conceptions of their leading principles.

Not given in 1902-03.

*9 and 10—History of Philosophy, Advanced Course.*

3 hours

Entire year.

An intensive and thoroughly critical study of some one of the great masterpieces, such as Kant's "Critique of Pure Reason," Schopenhauer's "The World as Will and Idea," etc. A different work is chosen each semester, so that the course may be taken for the whole year or elected for either semester.

Prerequisite: Courses 1, 7, and 8.

*11 and 12—Reading Course.*

2 hours

Entire year.

Selections from the works of French and German writers upon psychology, ethics, and metaphysics

## ILLINOIS COLLEGE.

The primary purpose of the course is to familiarize the student with the technical terms more fully than is possible in the study of modern language from the literary point of view. Advanced students of philosophy must be able to command the literature of the subject in French and German. French, first semester; German, second semester. Elective either semester.

Prerequisite: One year's study of the language.

### 13—*Logic*.

2 hours

First Semester.

Attention is given to modern scientific methods as well as to formal logic. The subjects of inference, hypothesis, judgment, and detection of fallacies are studied in detail, as also the relation between the inductive and deductive phases of reasoning.

### 14—*Ethics*.

2 hours

Second Semester.

The treatment of this subject begins with a brief historical sketch—an outline of the main features of the most influential and representative ethical theories. The fundamental ethical concepts are then subjected to careful logical and psychological analysis, the results of which are brought to bear upon the more detailed study and criticism of the theories already studied in outline. Constructive work accompanies criticism.

Prerequisite: Course 1. Course 10 should have been taken if possible, though not an absolute prerequisite.

## EDUCATION.

### 1 and 2—*History of Education*.

2 hours

Entire year.

A sketch of the development of education, the influence of great leaders and great writers from the Greeks

to the present day. Discussion of important theories, educational experiments, reforms, and institutions, both civil and ecclesiastic, in their bearing upon modern educational theory and practice.

Given in alternate years with Course 3 and 4.

*3 and 4—Child Study.*

2 hours

Entire year.

A study of the development of the child from birth to maturity. The significant periods of mental development are discussed with special reference to making plain their chief characteristics and showing the psychological principles which must guide the teacher in his attitude toward the pupil.

Not given in 1902-03.

*6—Psychology of Education.*

3 hours

Second Semester.

A study of special topics in psychology in relation to teaching. Such subjects as attention, imagery, habit, emotion, and the relation of the condition of the bodily organism to the activity of the mind are discussed in their bearings upon methods of teaching and the construction of the curriculum.

Prerequisite: Course 1.

Given in alternate years with Course 8.

*8—Modern Educational Theory and Practice.* 3 hours

Second Semester.

The object of this course is to consider what is actually being thought and done in current educational work. An attempt will be made to furnish a rational method for considering the various problems of class-room instruction and to deal with principles that control successful teaching.

Not given in 1902-03.

## PHYSICS.

JOSEPH H. HART, Assistant Professor.

The courses which are here presented are designed to give the student a knowledge of the general phenomena of physics, the methods and instruments which are used in their investigation, and the scope of modern work in the department. Special attention is given in the elementary work to the practical relation of the subject and every effort made to develop a spirit of scientific inquiry. A sequence of several years work is offered in the department.

1—*Elementary Mechanics.* 3 hours

First Semester.

This course is intended as an introduction to work in physics and it or its equivalent is a prerequisite to all courses.

3—*General Physics.* 5 hours

First Semester.

This course is intended to give a thorough knowledge of the general phenomena of physics, a familiarity with laboratory methods, and the use of apparatus. It consists of lectures and recitations, supplemented by laboratory work as far as is practicable.

4—*Advanced Physics.* 5 hours

Second Semester.

This course is intended as a continuation of Course 1, and is open to those students only who have taken Course 1 or its equivalent. It is similar in form to



that course, but a much larger amount of laboratory work is done.

5—*Light and Heat.* 5 hours

First Semester.

A laboratory, lecture and recitation course in light and heat. The subject matter is based on Preston's *Light* and Preston's *Heat*. A large amount of outside reading is done in this course under the direction of the instructor.

Prerequisite: Courses 3 and 4.

6—*Electricity and Magnetism.* 5 hours

Second Semester.

This course is similar to Course 3. Some standard text on electricity is used and a large amount of outside reading is done under the direction of the instructor.

Prerequisite: Courses 3 and 4.

7—*Applications of Electricity.* 2 hours

First Semester.

A lecture course for students who desire a general knowledge of electrical engineering in its broadest sense. A fortnightly or monthly examination is given on the subject matter of the lectures.

8—*Applications of Electricity.* 2 hours

Second Semester.

This course is similar in purpose and form to Course 5 and is intended as a continuation of it. The subject matter, however will be confined to the more recent applications of electrical engineering.

*Seminar in Physics.*

An informal meeting of instructors and students will be held every fortnight for the review of current literature and scientific periodicals. In addition a number of original papers and criticisms will be read.

## ROMANCE LANGUAGES.

EDWARD E. RUBY, Assistant Professor.

The courses in French are designed to give the student a good knowledge of the forms and structure of the language and some acquaintance with its literature. Pronunciation is taught phonetically, and throughout the course practice is afforded in oral reading. The short course in Spanish is intended to give a fair reading knowledge of the language.

*1—Elementary French.*

5 hours

## First Semester.

Pronunciation and grammar, including the study of forms and of the more elementary features of syntax.

Texts: Passy, *La Légende du Quatrième Mage*; Fraser and Squair, *French Grammar*.

*2—Elementary French, continued.*

5 hours

## Second Semester.

Reading, composition, and grammar. The composition consists of the translation of sentences and of easy connected discourse. In the reading, emphasis is placed upon a full understanding of all idiomatic constructions. Practice is given in translation at sight.

Prerequisite: Course 1.

Texts: Fraser and Squair, *French Grammar*; Benton, *Easy French Plays*; Halévy, *L'Abbé Constantin*.

3—*Modern French.* 3 hours

## First Semester.

Mérimée, Columba; Pailleron, *Le Monde où l'on s'Ennuie*; Maupassant, *Contes*; Dumas, *La Question d'Argent*.

Prerequisite: Course 2.

4—*Modern French.* 3 hours

## Second Semester.

Continuation of Course 3. Augier, *Le Gendre de Monsieur Poirier*; Rostand, *Cyrano de Bergerac*; Balzac, *Eugénie Grandet*; Bowen, *Modern French Lyrics*.

Prerequisite: Course 3.

5—*Composition.* 2 hours

## First Semester.

Review of grammar, and practice in written and oral translation from English to French.

Texts: Baillot and Brugnot, *French Prose Composition*; Hennequin, *Lessons in Idiomatic French*.

6—*Composition.* 2 hours

## Second Semester.

Continuation of Course 5.

Prerequisite: Course 5.

7—*Classic Drama.* 3 hours

## First Semester.

The study of one play each of Corneille and Racine, and two of Molière; collateral reading and reports.

Texts: Corneille, *Le Cid*; Racine, *Athalie*; Molière, *Le Misanthrope*, and *L'Avare*.

Prerequisite: Course 4.

8—*Eighteenth Century Literature.* 3 hours

Second Semester.

Studies in Montesquieu, Voltaire, Diderot, Rousseau, and Beaumarchais; collateral reading and reports.

Prerequisite: Course 7.

9—*Elementary Spanish.* 3 hours

First Semester.

Grammar, composition, and reading. Careful attention, is given to pronunciation.

Texts: Knapp, Spanish Grammar; Valera, El Pájaro Verde; Alarcón, El Capitán Venneo.

10—*Elementary Spanish.* 3 hours

Second Semester.

Continuation of Course 9.

Prerequisite: Course 9.

Texts: Knapp, Spanish Grammar; Moratin, El Sí de las Niñas; Valdés, José.

## SOCIOLOGY.

### PRESIDENT BARNES.

The courses in sociology are intended to give students a general survey of the social, intellectual and physical development of the human race, in so far as this plays a part in man's relations to his fellow; and to present for consideration some of the problems in modern life, which result from the failure of individuals to fulfil their social obligations.

1—*Anthropology.* 2 hours

First Semester.

A general course of study in the development of man, including social characteristics and ethnology; but giv-

ing special attention to the growth of those religious, social, political and economic instructions which have their origin in primitive society.

Text: Taylor, Anthropology; Brinton, Races and Peoples.

2—*Sociology.*

2 hours

Second Semester.

A study of the forms of human association and the principles underlying them, together with a brief consideration of the various problems resulting from a dependant and defective class, and the different means employed for remedy and relief.

Text: Gidding, Principles of Sociology; Wright, Elements of Practical Sociology.

## OUTLINE OF STUDIES.

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The group system is designed to assist the student in a wise choice of studies, and protect him from the possible errors arising from an unrestricted elective system. To this end the curriculum is divided into six groups, each of which gives prominence to a special line of work, and prescribes the course necessary to its proper prosecution. Outside of these prescribed course, there is, in the Junior and Senior years especially, a wide range of electives, affording the opportunity for further specialization or for a choice of more general subjects.

The choice of a group and of electives should be made with the utmost care and upon consultation with members of the Faculty. Changing from one group to another will not be permitted.

Students, electing a course that has a course logically following it in the second semester, will be required to take the course during the second semester.

All work in the Freshman year is required.

In the Sophomore and Junior years, a student must chose from the electives for which he is prepared, a sufficient number of hours to make a total, with required work, of 16 hours per week each semester.

In Senior year all work is elective. A total of 16 hours per week must be chosen each semester.

# FRESHMAN YEAR.

## FIRST SEMESTER.

### PRESCRIBED.

GROUP I. A. B.	GROUP II. Ph.B.	GROUP III. Ph.B.
<i>Latin</i> , I 5	<i>Latin</i> , I 5	<i>Latin</i> , I 5
<i>Greek</i> , I 5	<i>German</i> , 3 or	<i>German</i> , 3 or
<i>Math.</i> , I 4	<i>French</i> , 3 & 5 5	<i>French</i> , 3 & 5 5
<i>English</i> , I 2	<i>Math.</i> , I 4	<i>Math.</i> , I 4
	<i>English</i> , I 2	<i>English</i> , I 2
16	16	16
GROUP IV. Ph.B	GROUP V. B. S.	GROUP VI. B. S.
<i>French</i> , I or 3 & 5 5	<i>Biology</i> , I 5	<i>Physics</i> , 3 5
<i>German</i> , I or 3 5	<i>German</i> , 3 or	<i>German</i> , 3 or
<i>Math.</i> , I 4	<i>French</i> , 3 & 5 5	<i>French</i> , 3 & 5 5
<i>English</i> , I 2	<i>Math.</i> , I 4	<i>Math.</i> , I 4
	<i>English</i> , I 2	<i>English</i> , I 2
16	16	16

### ELECTIVE.

*Bible Study*, 4 1

## SECOND SEMESTER.

GROUP I. A. B.	GROUP II. Ph.B.	GROUP III. B. S.
<i>Latin</i> , 2 5	<i>Latin</i> , 2 5	<i>Latin</i> , 2 5
<i>Greek</i> , 2 5	<i>German</i> , 4 or	<i>German</i> , 4 or
<i>Math.</i> , 2 4	<i>French</i> , 4 & 6 5	<i>French</i> , 4 & 6 5
<i>English</i> , 2 2	<i>Math.</i> , 2 4	<i>Math.</i> , 2 4
	<i>English</i> , 2 2	<i>English</i> , 2 2
16	16	16
GROUP IV. Ph. B.	GROUP V. B. S.	GROUP VI. B. S.
<i>French</i> , 2 or 4 & 6 5	<i>Biology</i> , 2 5	<i>Physics</i> , 4 5
<i>German</i> , 2 or 4 5	<i>German</i> , 4 or	<i>German</i> , 4 or
<i>Math.</i> , 2 4	<i>French</i> , 4 & 6 5	<i>French</i> , 4 & 6 5
<i>English</i> , 2 2	<i>Math.</i> , 2 4	<i>Math.</i> , 2 4
	<i>English</i> , 2 2	<i>English</i> , 2 2
16	16	16

### ELECTIVE.

*Bible Study*, 4 1



# SOPHOMORE YEAR.

## FIRST SEMESTER.

### PRESCRIBED

GROUP I. A. B.	GROUP II. Ph. B.	GROUP III. Ph.B.
<i>Greek</i> , 3                      5	<i>Latin</i> , 3                      4	<i>Latin</i> , 3                      4
<i>Oratory</i> , 1                      1	<i>Math.</i> 3                      5	<i>History</i> , 1                      4
<i>English</i> , 3                      3	<i>Oratory</i> , 1                      1	<i>Oratory</i> , 1                      1
9	<i>English.</i> 3                      3	<i>English</i> , 3                      3
	13	12
GROUP IV. Ph. B.	GROUP V. B. S.	GROUP VI. B. S.
<i>German</i> , 5 or <i>French</i> , 3&5                      3	<i>Chemistry</i> , 1                      5	<i>Physics</i> , 5                      5
<i>History</i> , 1                      4	<i>Biology</i> , 3                      5	<i>Math.</i> , 3                      5
<i>Oratory</i> , 1                      1	<i>Oratory</i> , 1                      1	<i>Oratory</i> , 1                      1
<i>English</i> , 3                      3	<i>English</i> , 3                      3	<i>English</i> , 3                      3
11	14	14

### ELECTIVES.\*

<i>Mathematics</i> ,	<i>Biology</i> ,	1 (5)
3 (5); 7 (3); 9 (4)	<i>History</i> ,	1 (4)
<i>Latin</i> ,	<i>Chemistry</i> ,	1 (3)
3 (4)	<i>English</i> ,	7 (2)
<i>German</i> , 1 (5); 3 (5); 5 (3)	<i>Physics</i> ,	3 (5); 7 (2)
<i>French</i> , 1 (5); 3 (3); 5 (2)		
<i>Spanish</i> ,		
9 (3)		

\*The student must elect from this or the Freshman list enough hours of work to make a total of 16 hours per week during the semester.

# SOPHOMORE YEAR.

## SECOND SEMESTER.

### PRESCRIBED

GROUP I. A. B.	GROUP II. Ph. B.	GROUP III. Ph. B.
<i>Greek</i> , 4            5	<i>Latin</i> , 4            4	<i>Latin</i> , 4            4
<i>Oratory</i> , 2           1	<i>Math.</i> , 4            5	<i>History</i> , 2           4
<i>English</i> , 4           3	<i>Oratory</i> , 2           1	<i>Oratory</i> , 2           1
9	<i>English</i> , 4           3	<i>English</i> , 4           3
	13	12
GROUP IV. Ph. B.	GROUP V. B. S.	GROUP VI. B. S.
<i>German</i> , 6 or <i>French</i> , 4 & 6 3	<i>Chemistry</i> , 2    5	<i>Physics</i> , 6           5
<i>History</i> , 2            4	<i>Biology</i> , 4           5	<i>Math.</i> , 4            5
<i>Oratory</i> , 2            1	<i>Oratory</i> , 2           1	<i>Oratory</i> , 2           1
<i>English</i> , 4            3	<i>English</i> , 4           3	<i>English</i> , 4           3
11	14	14

### ELECTIVES.\*

<i>Mathematics</i> , 4 (5); 12 (4); 8 (3)	<i>History</i> , 2 (4)
<i>Latin</i> , 4 (4)	<i>German</i> , 2 (5); 4 (5); 6 (3)
<i>French</i> , 2 (5); 4 (3); 6 (2)	<i>English</i> , 8 (2)
<i>Spanish</i> , 10 (3)	<i>Chemistry</i> , 2 (5); 4 (3)
<i>Biology</i> , 2 (5)	<i>Physics</i> , 4 (5); 8 (2)

\*See note under First Semester Electives.

# JUNIOR YEAR.

## FIRST SEMESTER.

PRESCRIBED.		
GROUP I. A. B.	GROUP II. Ph. B.	GROUP III. Ph. B.
<i>Greek</i> , 5                      5	<i>Math.</i> 5,7, II or <i>Physics</i> , 3 4	<i>Political Sc.</i> , I 3 <i>History</i> 3,                      4
<i>English</i> , II or <i>History</i> , 7                      5	<i>Latin</i> , 5                      3	<i>History</i> 7,                      5
— 10	— 11	— 12
GROUP IV. Ph. B.	GROUP V. B. S.	GROUP VI. B. S.
<i>History</i> , 3                      3	<i>Chemistry</i> , 5                      5	<i>Math.</i> , II                      4
<i>English</i> , 9,                      3	<i>Science</i> or	<i>Science</i> or
<i>English</i> , II                      5	<i>Math.</i> , 5,7,II 6	<i>Math.</i> , 5, 7                      7
— 11	— 11	— 11

## ELECTIVES.\*

<i>Latin</i> ,                      5 (3); II (2)	<i>History</i> ,    3 (3); 5 (3); 7 (5)
<i>Greek</i> ,                      I (5)	<i>Philosophy</i> , I (3); 5 & 6(2); 7 & 8(2); I3(2)
<i>English</i> , 9(3); II(3); I3(3); I5(2); I9(2)	<i>Oratory</i> ,                      3 (2); 5 (1)
<i>Political Science</i> ,                      I (3)	<i>Education</i> , I & 2 (2); 3&4(2)
<i>Mathematics</i> , 5 (4); II (4)	<i>French</i> ,                      7 (3)
<i>Biology</i> ,                      3 (5)	
<i>Physics</i> ,                      5 (5)	

\*The student must elect from this or the Freshman and Sophomore lists enough hours of work to make a total of 16 hours per week during the semester.

# JUNIOR YEAR.

## SECOND SEMESTER.

### PRESCRIBED

GROUP I. A. B.	GROUP II. Ph. B.	GROUP III. Ph.B.
<i>Greek</i> , 6                      5	<i>Math.</i> , 6, 8, or <i>Physics</i> , 4                      8	<i>Political Sc.</i> , 2    3
<i>English</i> , 12 <i>History</i> , 8    5 <u>          </u> 10	<i>Latin</i> , 6                      3 <u>          </u> 11	<i>History</i> , 4                      3 <i>History</i> , 9                      5 <u>          </u> 11
GROUP IV. B. S.	GROUP V. B. S.	GROUP VI. B. S.
<i>History</i> , 4                      3	<i>Chemistry</i> , 6                      5	<i>Math.</i> , 12                      4
<i>English</i> , 10                      3	<i>Science or</i> <i>Math.</i> , 6, 8, 12    6	<i>Science or</i> <i>Math.</i> , 6, 8                      7
<i>English</i> , 12                      5 <u>          </u> 11	<u>          </u> 11	<u>          </u> 11

### ELECTIVES\*

<i>Latin</i> ,                      6 (3); 12 (2)	<i>History</i> ,    4 (3); 6 (3); 8 (5)
<i>Greek</i> ,                      2 (5)	<i>Philosophy</i> , 2(3);5&6(2); 7 & 8(2);14 (2)
<i>English</i> , 10(3);12(3);14(3);16(2);20(2)	<i>atory</i> ,                      4 (2); 5 (1)
<i>Political Science</i> 2 (3)	<i>Education</i> , 1 & 2 (2); 3 & 4 (2); 6 (3)
<i>Mathematics</i> ,    6 (4); 10 (4)	<i>French</i> 8 (3)
<i>Biology</i> ,                      4 (5)	
<i>Physics</i> ,                      6 (5)	

\*See note under First Semester.

# SENIOR YEAR.

## FIRST SEMESTER.

### ELECTIVES.\*

<i>Latin,</i>	7 (2); 9 (2); 11 (2)	<i>Philosophy,</i>	3(1); 9(3); 11(2)
<i>Greek,</i>	3 (5); 7 (3); 9 (2)	<i>Political Science,</i>	3(2); 5(3)
<i>English,</i>	17 (2)	<i>History,</i>	5 (3)
<i>Chemistry,</i>	7 (5); 9 (5)	<i>Sociology,</i>	1 (2)
<i>Physics,</i>	7 (2)		

\*The student must elect from this or the other list of Electives enough hours of work to make a total of 16 hours per week during the semester.

### SECOND SEMESTER.

### ELECTIVES.\*

<i>Latin,</i>	8 (2); 10 (2); 12 (3)	<i>Philosophy,</i>	10 (3); 12 (2)
<i>Greek,</i>	4 (5); 8 (3); 10 (2)	<i>History,</i>	6 (3)
<i>English,</i>	18 (2)	<i>Political Science,</i>	4(2); 6(2)
<i>Chemistry,</i>	8 (5); 9 (5)	<i>Sociology,</i>	2 (2)
<i>Physics,</i>	8 (2)		

\*See note to Electives of First Semester,

# HOURS OF RECITATION.

	8:15	9:30	10:30	11:30	1:30	2:30	3:30
Bible Study.	.....	.....	.....	.....	.....	.....	..... W
Biology.	.....	1, 2—M W F†	1, 2—M W F†	.....	.....	4, 5—M W F†	4, 5—M W F†
.....	.....	..1, 2—T Th*	.....	.....	.....	..4, 5—T Th*	..4, 5—T Th*
Chemistry.	.....	.....	.....	.....	1, 2, 4, 5, 6—Daily	1, 2, 4, 5, 6—Daily	1, 2, 4, 5, 6—Da
English	.....	11, 12—M W F	3, 4—M W F	15, 16—T Th	9, 10—M W F	13, 14—M W F	13, 14—M W F
.....	.....	..7, 8—T Th..	.....	.....	..1, 2—T Th..	19, 20—T Th.	19, 20—T Th.
Education.	.....	.....	.....	.....	17, 18—T Th.	.....	.....
French.	7, 8—M W F	1, 2—Daily.	.....	3, 4—M W F.	..1, 2—T Th..	.....	.....
.....	.....	.....	.....	..5, 6—T Th..	.....	.....	.....
German	.....	.....	1, 2—Daily.	3, 4—Daily.	.....	5, 6—M W F.	5, 6—M W F.
Greek	3, 4—M W F	.....	7, 8—M W F	1, 2—Daily.	.....	..5, 6—Daily..	..5, 6—Daily..
History.	5, 6—M W F	1, 2—M W Th F	.....	.....	.....	..3, 4—M W F.	..3, 4—M W F.
Latin	.....	1, 2—Daily.	.....	3, 4—T W Th F	5, 6—M W F	.....	.....
Math.	1, 2—M T Th F	5, 6—M W F	7, 8—T W F	.....	..3, 4—Daily..	11, 12—M T Th F	11, 12—M T Th F
Oratory.	.....	..1, 2—T	.....	.....	..5, 6—W..	..3, 4—T Th..	..3, 4—T Th..
Pol. Science	.....	.....	5, 6—M W F	1, 2—M W F	.....	.....	.....
.....	.....	.....	.....	..3, 4—T Th..	.....	.....	.....
Philosophy.	..5, 6—T Th..	1, 2—M W F	.....	.....	13, 14—T Th	.....	.....
Physics.	.....	..3, 4—Daily..	.....	5, 6—Daily.	..1—Daily..	..7, 8—Daily	..7, 8—Daily
Sociology	.....	.....	..1, 2—T Th..	.....	.....	.....	.....
Spanish	.....	.....	9, 10—M W F	.....	.....	.....	.....

\*Lectures.

†Laboratory Work.

# GENERAL REGULATIONS.

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## REGISTRATION.

Each student must report in person at the Dean's office before 1 p. m. of the first Wednesday of the first semester and register,

*a.* His full name, his home address, and college address;

*b.* His choice of studies for the semester.

Each candidate for admission must present his certificate of matriculation to the Dean and register not later than the day following matriculation.

The choice of studies for the second semester must be reported in writing to the Dean three weeks before the beginning of the second semester.

Any student who does not register in accordance with the above rules will not be allowed to register until he has received permission of the Dean and has paid a special fee of one dollar.

## TUITION AND FEES.

All tuition and fees are payable to the Bursar at the time of registration. No student will be enrolled as a member of any class until he presents a receipt from the Bursar. In exceptional cases, by depositing with the Bursar \$5.00 in addition to the fees, a student will be given a receipt in part. This deposit will be forfeited unless the remainder of the tuition is paid within thirty days.



## ATTENDANCE.

Each student is required to be regular in his attendance upon chapel services and class exercises, but to allow for such absences as may seem necessary, the following rules have been adopted.

A student is allowed each semester the following absences for which he will not be required to be excused by the Dean.

From chapel service, 10 absences; from a five hour course, 5 absences; from a four hour course, 4 absences; from a three hour course, 3 absences; from a two hour course, 2 absences; from a one hour course, 2 absences. Absences on account of sickness will be excused at the discretion of the Dean, if the student present a satisfactory excuse to him immediately upon his return to college.

For the first absence exceeding the limit in any of the cases specified, the student will be warned and his parents notified. For the second absence, he will, in case of chapel, be dismissed from college, and in case of recitations, he will be dropped from the class in which the absences occurred, unless excused by special vote of the Faculty.

If suspended for absences, a student will forfeit his standing in the class in which the absence occurred and will be required to do the work of the semester with the class of the succeeding year. If, however, he has maintained a satisfactory grade, he may upon recommendation of his instructor obtain permission from the Faculty to take a special examination for which a fee of one dollar shall be paid to the Bursar.

## PUBLIC WORSHIP.

Every morning immediately after the first recitation a brief religious service is held in the College chapel at which all students are required to be present. It is the aim of the College to maintain the high christian standard of its missionary founders, and to develop in the students the noblest type of christian manhood.

All students are desired and encouraged to attend divine worship on Sunday, and the churches of the city are most cordial in their attitude toward the student body.

## CLASS OFFICERS.

In order that the closest and most friendly relations may exist between the students and the faculty, each class upon entering college has an instructor assigned to it as class officer, to whom its members can look for advice and counsel at all times during their college course, and whose judgement in many matters can be of great value to them.

## EXAMINATIONS.

At the end of each semester all students are examined in the courses pursued by them during the semester. A student is not admitted to examination in any course in which his work has been unsatisfactory to the instructor. Absence from an examination, except by reason of absolute necessity, will be regarded as failure in the course. The results of the examinations are combined with those of the recitations to decide the standing of the student.

The standing of a student is indicated by letters as follows:

A—exceptionally good.

B—passed with credit.

C—passed.

D—conditioned.\*

F—failed, the course must be taken again the following year.

#### RECORDS AND REPORTS.

A careful record is kept of the attendance of every student in the College and of his proficiency in his several studies. At the end of each semester a report is sent to the parent or guardian of every student, indicating his standing in each of his studies for that semester.

#### GRADUATION.

In the award of all degrees and honors, attention is paid to the conduct of the student during his college course, and any student who has incurred serious discipline may be debarred from the rank to which otherwise his scholarship would have entitled him.

#### BACHELORS DEGREE.

Students who complete a required course of study are ordinarily recommended by the Faculty for the degree of Bachelor of Arts, Bachelor of Philosophy, or Bachelor of Science, according to the studies pursued. If the recommendation is approved by the Trustees,

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\*When a student is conditioned he must review the course and be examined, when if he again fails, he will be marked F.

the degree is conferred at Commencement, and diplomas, signed by the President and by the Secretary of the Board of Trustees, are issued. The fee for this degree is five dollars, to be paid to the College Treasurer not later than one week before Commencement.

#### MASTERS DEGREE.

The degree of Master of Arts may be conferred upon a Bachelor of Arts or a Bachelor of Philosophy of this or of any other institution of approved standing, who shall have devoted one year exclusively to graduate study in the College under direction of the Faculty, and who shall have shown satisfactory proficiency in his work through examinations and by preparing a thesis upon an approved subject. The fee for this degree is ten dollars, to be paid to the College Treasurer before the candidate enters his final examinations.

Under the same conditions the degree of Master of Science may be conferred upon a Bachelor of Science.

#### GRADUATION HONORS.

The final rank of members of a graduating class is computed by combining the averages for the several years of the college course; the average for the Freshman year, however, is omitted in those cases in which it would lower the standing of the student. From these final marks, the Faculty determines what portion of the class shall be printed as the Honor List—the names of the members of each group being printed in alphabetical order. Special Honors in particular departments are also awarded.

The first and second general groups thus determined are the Honor groups of the graduating class, and are designated *magna cum laude*, or *cum laude*, respectively.

The higher distinction of *insigni cum laude* and the highest, of *summa cum laude*, are reserved for very unusual excellence.

#### COMMENCEMENT SPEAKERS.

The Senior whose individual rank is highest is ordinarily awarded the *Valedictory* by vote of the Faculty. In like manner the Senior whose individual rank is the next highest receives the *Salutatory*. Three others who ranked highest in the Senior Oratorical contest are chosen to deliver English Orations, usually in the order of their scholarship.

#### PRIZES.

All prizes are offered each year. The Faculty is authorized, however, to withhold a prize in any instance in which reasonable competition is not manifested by members of the class entitled to compete.

No student will be allowed to compete for a prize in a course which he does not pursue with his class at the regular time.

It is expected that all prizes will be expended for books or for some other object approved by the Faculty.

#### THE REID PRIZES.

Four prizes, in memory of Arthur Somerville Reid, are given, as follows:

(a) A prize of \$50, competition for which is open to the members of the Senior class, is awarded

for the best original oration on a given subject judged from the standpoint of thought and composition.

(b) A prize of \$30, competition for which is open to the five Seniors attaining the highest rank in contest (a), is awarded to the competitor receiving the highest average rank in delivery.\*

(c) A prize of \$20, competition for which is open to members of the Junior class, is awarded for the best thesis of not less than 4000 words on some subject chosen by the Department of History.

(d) A prize of \$20, competition for which is open to members of the Junior class, is awarded for the best thesis of not less than 4000 words on some subject to be chosen by the Department of English.

#### THE SMITH PRIZES.

A fund of \$1000 has been given by Mr. Thomas Smith of Hartford, Conn., the income from which is applied as follows:

(a) The income from the sum of \$250 is awarded to a member of the Sophomore class for the best declamation in English prose.

(b) The income from the sum of \$250 is awarded to a member of the Sophomore class receiving the highest grade for the year's work in English composition.

(c) The income from the sum of \$250 is awarded to a member of the Sophomore class in mathematics for the best discussion of some subject related to the work of the year.

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\*The three Seniors receiving the highest average mark in this contest are chosen as Commencement Speakers.



(d) The income from the sum of \$250 is awarded to the member of the Freshman class giving the best discussion of some assigned problem or topic in mathematics. The competition is open to the four students whose class rank for the year in mathematics is highest.

THE IRELAND PRIZE.

The income from the sum of \$500, given by Rev. W. E. Catlin, of the class of 1845, in honor of his classmate, Rev. William Ireland, is awarded to a member of the Senior class for the best paper on some assigned subject in the Department of Philosophy.

THE BRYAN PRIZE.

The income from the sum of \$300, given by the Hon. William Jennings Bryan, of the class of 1881, is awarded to the member of the Junior class in Political Science who presents the best thesis on an assigned subject bearing on the work of the course.

THE HALL PRIZE.

The income from the sum of \$250, given by Mr. H. H. Hall, of Jacksonville, is awarded for the best oration delivered by a member of the Junior class.

The following prizes were awarded in 1900-01:

THE REID PRIZE, For Senior Oration.

*First*—Elbert Adrian Collins,

*Second*—George Jackson Kneeland.

THE SMITH PRIZE, For Sophomore English.

*First*—Wilber Walter Hatfield,

*Second*—William Murray Goff.

THE BRYAN PRIZE, Junior prize in Political Science.  
E. Bentley Hamilton, Jr.



THE HALL PRIZE, For Junior Declamation.

*First*—Paul Wilbur Wemple,

*Second*—Leon Littlefield Brockman.

PRIZE FOR FRESHMAN DECLAMATION.

Benjamin Franklin Lane.

### SCHOLARSHIPS.

The income from Scholarship is given to students as a reward of merit and as a means of assistance. Application for scholarships must be made not later than May 31, and must contain an honest statement of the student's financial condition, together with testimonials of good moral character, and of intellectual ability.

Any student who by reason of failure at a regular examination, is conditioned in any subject, or who shall fail to attain an average grade of C in the studies of any semester, will forfeit his scholarship for the next semester.

Scholarships are assigned for one year only; students desiring to have their scholarships continued must make a new application in the regular form.

The following scholarships have been established by friends of the College:

- 1—The Henry Haskins Ousley Memorial Scholarship, established by Mrs. Ella L. Brainard, of Lincoln, Ill., in memory of her father.       -       -       -       -       -       - \$1,000

- 2—The Walter Lee Sanders Memorial Scholarship, established by Hon. Geo. A. Sanders, of Springfield, Ill., in memory of his son.                   -                   -                   -                   - \$1,000
- 3—The Frank L. True Memorial Scholarship, established by Lyman W. True, of Jacksonville, in memory of his son.                   -                   -                   \$500
- 4—The Hubbard Scholarship, established by friends of the College.                   -                   -                   - \$1,000
- 5—The Barstow Scholarship, established by Mr. A. C. Barstow, of Providence, R. I. \$1,000
- 6—The Walcott Scholarship, established by Rev. Samuel Walcott, of Providence, R. I. \$1,000
- 7—The Holmes Scholarship, established by Mr. Charles Holmes, St. Louis, Mo. - \$1,000
- 8-9—The Ellis Scholarships, established by Rev. John M. Ellis, one of the founders of the College.                   -                   -                   -                   - \$2,000
- 10-11—The Abel Scholarships, established by Mr. Abel, of Quincy, Ill.                   -                   -                   - \$2,000
- 12—The Y. P. S. C. E., Scholarship, established by the Congregational Churches of Quincy, Jacksonville, and Waverly, the Christian Church, and the State Street Presbyterian Church of Jacksonville, Ill.                   \$                   50

- 13—The Harvard University Scholarship. At an annual meeting, December 14, 1897, the Harvard Club of Chicago established an annual scholarship at Harvard University. This Scholarship is open to the graduates of the universities and colleges of Illinois who wish to follow a graduate course of study at Harvard University. Application must be made before May 1st in each year; senior students about to finish the undergraduate course are eligible as candidates. Communications from candidates for the year 1902-03 should be addressed to Samuel Adams, 516 Monadnock Block, Chicago. - - - - \$300

## EXPENSES.

### LODGING.

Steam heated rooms may be had in Crampton Hall at the rate of \$12.50 a semester. A deposit of \$5.00 must be made when the room is reserved and the balance paid within thirty days from date of registration.

The accomodations are superior to those of ordinary college dormitories. Each suite of rooms, consisting of a study room fifteen feet square and a bedroom eight by twelve, is occupied by two students, and is cared for every day by a janitor. The study room is furnished with a large study table, and the bedroom with a double bed, and a woven wire mat-

dress as permanent articles of furniture. Other articles of furniture, such as chairs, washstands with appurtenances, and bedding, are furnished by the students themselves.

Choice of rooms is given by seniority to the college classes. Early application should be made by those wishing to secure rooms in Crampton Hall, as the building is usually entirely occupied at the opening of the college year.

Each student occupying rooms in Crampton Hall is required to deposit with the Bursar \$10.00 at the beginning of each semester, to be applied by him to the payment of bills for gas and possible damage during the semester. Any money not so applied will be returned to the student at the close of the semester, or at such time as the student may have leave of absence for the remainder of the semester.

#### BOARD.

Students maintain a boarding club in a commodious building on the campus, well supplied by the College with all the necessary table and other furniture, and obtain good board at its actual cost. The price of board is estimated at \$2.50 per week. The cost of board in private families, with furnished room, is from \$3.50 to \$4.50 per week.

#### LABORATORY FEES.

Fees of \$5.00 per semester are charged students in Biology and Chemistry, and of \$2.50 in Physics, to defray the cost of material, gas, and reagents.

In addition to the laboratory fee in Chemistry students must deposit \$5.00 with the Bursar for ad-

ditional damage and breakage to apparatus. The balance due will be repaid at the end of the semester.

#### LIBRARY AND GYMNASIUM FEE.

A Library and a Gymnasium fee of \$2.50 each are charged each student.

#### SCHEDULE OF EXPENSES.

The following is a schedule of expenses for each semester:

Required of all:

Tuition .. . . . . .	\$25.00
Library and gymnasium fee.....	2.50

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Total.....\$27.50

Students in Biology: laboratory fee.....	\$5.00
“ “ Physics: “ “ ....	2.50
“ “ Chemistry: “ “ ....	5.00
Room rent in Crampton Hall.....	12.50
Board at the College Club.....	45.00

#### ESTIMATE BY THE YEAR.

	Lowest	Moderate	Liberal
Tuition .. . . . . .	\$50.00	\$50.00	\$50.00
Library and gymnasium fees	5.00	5.00	5.00
Room rent.....	25.00	25.00	25.00
Board .. . . . . .	75.00	90.00	108.00
Books, society fees, etc....	10.00	15.00	20.00
Light.....	5.00	7.00	10.00
Laboratory fees.....		5.00	10.00
	<hr/>	<hr/>	<hr/>
	\$190.00	\$197.00	\$228.00

## LITERARY SOCIETIES.

Among the most attractive and valuable features of student life in Illinois College are the Literary Societies. These not only have the enthusiastic support of their members, but are heartily indorsed by the Faculty as useful adjuncts to the regular departments of instruction. They are conducted with ability, dignity and strict attention to the purposes of their organizations, which are to furnish thorough training in debate, in expression of thought, and in parliamentary usages. Regular attendance and the prompt performance of duties are secured to a much greater degree than is usual in such organizations. The cost of membership is slight, as the dues vary from one to two dollars a year. These societies—Phi Alpha, Sigma Pi, and Gamma Nu—hold their meetings Friday evenings in their rooms in Beecher Hall, which is devoted exclusively to their uses. The society libraries contain more than four thousand volumes which are available for the use of members. All students of the College are eligible to membership.

## THE CHRISTIAN ASSOCIATION.

The Illinois College Young Men's Christian Association has long been an efficient and useful factor in student life. Its weekly exercises consist of a general meeting in prayer and conference Sunday afternoon, three classes for Bible study, and a class for study of missions. An employment bureau for the benefit of all college students is a valuable feature of the Association's work. Commodious

rooms in Jones Memorial building are devoted to the use of the Association.

### PHYSICAL CULTURE.

Systematic physical training is provided for all connected with the College and is required of all below the Junior year. Before entering upon this training every student is given a thorough physical examination by the director of physical culture. From this examination a chart is made out for the student, showing his size, strength, and development, and how he compares with the normal standard.

From January until April exercise is required in the gymnasium, most of the instruction being given in classes. Pulley weights, Indian clubs, dumb bells, bar bells, wands, horizontal and parallel bars, rings, and apparatus for developing special muscles are employed. To advanced students special drill is given on the bar and the horse.

The gymnasium is fully equipped for all forms of physical exercise, having in addition to abundant apparatus, a base ball cage, tub and shower bath, and lockers.

In addition to the work in the gymnasium, every facility is given for participation in out-door sports. The campus affords ample room for all forms of athletics, being supplied with a cinder running-track, ball fields, and tennis courts. During the winter months cross-country runs are kept up.

The ordinary drill-work, as well as the training



of teams for inter-collegiate contests, is under the direction of a competent instructor.

The general management of athletic affairs is vested in the Board of Control of the Athletic Association, consisting of representatives from the alumni, faculty, and students.



Lectures  
and  
Lecture Courses

offered by the  
LECTURE-STUDY DEPARTMENT  
of  
ILLINOIS COLLEGE

1902-03.

The rapid extension, during recent years, of clubs and literary societies, not only in our large cities but also in the smaller towns throughout the country, shows that there is an ever increasing number of persons having an intelligent interest in scientific, philosophical and literary subjects. To gratify this interest the people of larger cities have, apart from books and periodicals, the advantage of visits from numerous traveling lecturers which others cannot procure.

ILLINOIS COLLEGE believes that if an effort were made to place similar advantages within the reach of these people it would be appreciated, and that the result would prove to be mutually beneficial. In order that the experiment may have every chance of success, the College offers, at a cost very slightly above the actual expenses incurred by the lecturer, the lectures outlined in the following pages which have been prepared by certain members of the Faculty, each a specialist in his line.

Full information in regard to the method of procuring these lectures may be had by addressing

THE LECTURE-STUDY DEPT.,

Illinois College,

Jacksonville, Illinois.

# FACULTY.

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CLIFFORD WEBSTER BARNES, A. M., B. D.  
*President.*

MILTON ERASTUS CHURCHILL, A. M., B. D., Litt. D.  
*Dean and Professor of Greek.*

FREDERICK WARREN SANFORD, B. S. A. B.  
*Professor of Latin.*

JOHN GRIFFITH AMES, JR., B. Litt.  
*Professor of English.*

JOHN BISHOP TINGLE, Ph. D.  
*Professor of Chemistry.*

JAMES BERTRAM OVERTON, Ph. D.  
*Professor of Biology.*

FREDERICK SMITH HAYDEN, D. D.  
*College Chaplain and Professor of Philosophy and Biblical Literature.*

FRANK MARION MORRISON, A. B.  
*Professor of Mathematics.*

JAMES WILLIAM PUTNAM, A. M.  
*Assistant Professor of History and Political Science.*

IRVING ELGAR MILLER, A. M.  
*Assistant Professor of Philosophy and Education.*

JOSEPH HALL HART, Ph. D.  
*Assistant Professor of Physics.*

CHARLES HENRY RAMMELKAMP, Ph. D.  
*Assistant Professor of History*

MARTIN HENRY HAERTEL, B. S., Ph. B.  
*Assistant Professor of German.*

RUPERT FRANZ ASPLUND, A. B.  
*Principal of Whipple Academy; Instructor in Latin.*

EDWARD E. RUBY, A. M.  
*Assistant Professor of Romance Languages.*

WILLIAM MATHER LEWIS, A. B.  
*Instructor in English and Oratory.*

JOHN MARTAIN REDPATH, A. B.  
*Instructor in Latin.*

## Biology.

JAMES BERTRAM OVERTON, Ph. D., (Chicago.)

### PLANT LIFE.

A course of seven lectures illustrated by lantern slides.\* With suitable modification, the first three lectures will be delivered separately if desired.

*a—Protoplasm.* The living substance of Plants and its organization for work. The cell and its organs. Powers of the cell. Nuclear division. Cell division. Gradual differentiation of the plant body.

*b—Environment.* The condition in which work must be done. Food Material. Green and non-green plants. The plant in relation to water, air, temperature, light and gravity. Changes in these factors.

*c—The Lowest Plants.* Lowest type of body. Slime moulds. Bacteria. Blue-green Algae. Volvox forms. Protococcus forms.

*d—The "Sea-Weeds;" Algae.* The great groups of Plants. Conferva forms. Swimming spores. Evolution of sex. Differentiation of sex. Differentiation of sex organs. Significance of sex. Siphon forms. Conjugate forms.

*e—The Mosses; Bryophytes.* Alternation of Genera-

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\*The expense of illustration will be covered by a small extra fee depending upon circumstances. Further information will be furnished on application.

tions. Transitions from aquatic to terrestrial life. Evolution of the leafy axis.

*f—The Ferns; Pteridophytes.* The differentiation of spores. The development of the leafy Sporophyte; Sporophylls.

*g—The Seed-Plants; Spermatophytes.* Two great divisions: Gymnospermes and Angiosperms. Spermatophyte body. Microsporophylls; Megasporophylls; Fertilization; Embryo; the seed and its significance.

#### ANIMAL LIFE.

A course of six lectures Any of the lectures will also be given separately if desired.

*a—The Lowest Animals; Protozoa.* The animal cell. The powers of the primitive cell. Amoeba, Paramoecium. Other examples of simple animals. The primitive form.

*b—The Life and Form of Slightly Complex Animals.* Colonial Protozoa, and other examples. Gradual increasing complexity of body. Differentiation of body. Polyps; Corals; Jelly-fishes; etc.

*c—How Animal Reproduce.* Simple method of multiplication. Differentiation of reproductive cells. Evolution of sex. The object of sex. Sex dimorphism.

*d—The Life Cycle.* The life cycle of simple animals. Embryonic and post-embryonic development. Diver-



gence of development. Metamorphosis among insects. Birth; growth; development; and death.

*e—Parasitism and Degeneration.* Parasite and host. Tape-worm and other flat-worms. Trichina and other round-worms. Insect parasites. Degeneration though quiescence, etc. Advantages and disadvantages of parasitism.

*f—Animal Coloration; Protective Resemblances; Mimicry.* Warning colors. Protective and aggressive resemblance. Alluring coloration. Mimicry.

Dr. Overton has studied in the laboratories of the Universities of Michigan and Chicago. He was successively research student, fellow and teacher of Botany in the latter University, and is Professor of Biology in Illinois College.

## Chemistry.

J. BISHOP TINGLE, Ph. D., (Munich.)

### CHEMISTRY OF COMMON LIFE.

A course of six lectures, illustrated by experiments.

*a—General Relations of Chemistry* to other sciences and to common objects and processes. Properties of oxygen and hydrogen.

*b—Properties of carbon and nitrogen.* Study of some of the more important compounds of these four elements.

*c—Foods*, their uses, classification and composition. Starch, its origin, composition, and uses in the arts. Sugar, fermentation, alcohol, vinegar.

*d—Bread*. Its composition and preparation. Cellulose and fibers. Fats and oils. Manufacture of soap, candles and nitroglycerine.

*e—Water*. Its sources, contamination and purification.

*f—Air*. Ventilation, heating and illumination. Comparison of different systems.

The following single lectures are also offered.

*Illuminants*. Nature and varieties of flame. Gas, kerosene, candles, electricity, etc. Advantages and drawbacks of different systems of lighting.

*Fuels*. Composition and characteristics of fuels. Combustion. Wood, coal, oil, gas, etc.; their occurrence and properties.

Dr. Tingle is Professor of Chemistry in Illinois College. He has worked in several of the chief laboratories of this country and Europe and has devoted a considerable amount of time to the study of foods. The results of his personal investigations may be found in the leading chemical journals of America and Europe.

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NOTE—In place where illuminating gas is not available, a small extra charge will be made for the supply of compressed gas.

## English.

J. GRIFFITH AMES, B. Litt. (Oxford)

## RECORDS AND TRACES OF KING ALFRED.

A course of three lectures.

*a—Alfred the Warrior.* Some modern estimates of Alfred. Sources from which these estimates are derived. Anglo-Saxon chronicle. Asser's Life of Alfred. Alfred's Laws. His will. The prefaces to his translations. The Danes, their characteristics; incursions. Alfred's wars; his victories and defeats. His final triumph over the Danes. England, not Daneland.

*b—Alfred the Statesman.* His treaties with the Danes. His treatment of his conquered enemy. His Law. Fusion of Saxon, Anglian and Kentish Laws. Reconstruction of England. Restoration of monasteries; fortifications; development of a navy. Education of his people.

*c—Alfred the Man of Letters.* Condition of letters in England prior to 880. Foundation of prose. Alfred's Prefaces. Bede's Ecclesiastical History. Orosius' Universal History. Gregory's Pastoral Care. Gregory's Dialogues. Boethius' Consolation of Philosophy. Anglo-Saxon Chronicles. Alfred's character as in his writings. Summary.

## FROM CLASSICISM TO ROMANTICISM.

A course of three lectures.

*a—Classicism* defined and illustrated. Alexander Pope its chief exponent in poetry. His theories and his poetry.

*b—First traces of the spirit of Romanticism* in eighteenth century poetry. Thomas Gray. The change from Classicism to Romanticism as exemplified in his writings.

*c—Romanticism Supreme.* Shelley and Keats, Contrasts between them and Pope. The present condition of poetry.

## OUR FIRST ENGLISH EPIC.

A course of two lectures.

*a—The Beowulf.* Its chief characters and incidents. Its purpose. Wealth of information.

*b—The Beowulf.* The story of its preservation. Early estimates of it. Theories regarding its origin, home, authorship and date.

The following single lectures are also offered.

*Daniel Defoe; the Tradesman Author.* General eighteenth century characteristics. Rise of the Middle class. Defoe a respectable bourgeois. Growth

of periodical literature. Defoe as journalist, satirist, biographer, novelist, business man.

*Christopher Marlowe.* A glance at early English dramatic literature. Mysteries, miracles, moralities, interludes. English drama as Marlowe found it. His life. His motives. His great work. The drama modernized.

*Thomas Chatterton; the Wonderful Boy.* Classicism • what it means. Its hold on the eighteenth century. Romanticism; its characteristics, rise and displacement of classicism. Chatterton; his life, his inventions and genius. Romanticism as exemplified in him. His tragic death.

*A Visit to Oxford University.* (Illustrated by stereoptican.) Early foundation and history. Past and present characteristics of University and student life. Contrasted with American Universities.

Mr. Ames received his baccalaureate degrees from Johns Hopkins University and the University of Oxford, England. He has done graduate work at Harvard University and was for two years Professor of English at Kenyon College, Gambier, Ohio.

## Germanic Languages.

MARTIN H. HAERTEL, B. S., Ph. B.

THE MOST IMPORTANT PHASES OF GERMAN  
LITERATURE BEFORE THE  
FOURTEENTH CENTURY.

A course of five lectures.

In this course an attempt will be made to present the five most significant phases of ancient German life and literature. The lectures form a connected series, but they can also be delivered separately.

*a—Early German Life.* Religious Worship of the ancient Germans. Their Life and Ideals. The effect of the Migration. The characters used in writing.

*b—The Heroic Epic.* The Franks under Charlemagne. "Hildebrandslied" and the "Heliand" or Savior. Fall of the Carolingian Dynasty.

*c—The Court Epic.* The Crusades and the Development of chivalry in Germany. The greatest epic writers. Heinrich von Veldeke, Hartmann von Aue and Wolfram von Eschenbach. Special attention paid to Wolfram's version of the legend of the Holy Grail.

*d—The National Epic.* Contrast between the popular epic and the court epic. The minor national epics. The Nibelungenlied.

*e—The Court Lyric.* The relation of knight of the lady. Minne, or love Songs. The greatest of the Minne poets.

Mr. Haertel obtained his degrees from St. Charles College and the University of Chicago, where he has done graduate work in Germanic Philology and Literature. He is Assistant Professor of German in Illinois College.

## History And Political Science.

JAMES W. PUTNAM, A. M.

### THE FOUNDING OF THE AMERICAN REPUBLIC.

A course of three lectures. Any lecture will be delivered separately if desired.

*a—Separation from England.* The causes of separation. The obstacles to separation. The formation of revolutionary governments. The Declaration of Independence.

*b—First Experiment at Nation Building. The Confederation.* The form of government. Its tasks. Its successes and failures. Its fundamental weakness. The Constitutional Convention.

*c—Second Experiment at Nation Building. The Federal Union.* The Adoption of the Constitution. The organization of the new government. Foreign and domestic relations. The rise of political parties.



## THE PROTESTANT REFORMATION.

A course of three lectures. Any lectures will be given separately if desired.

*a—The German Reformation.* The ecclesiastical system. Demand for reform. Martin Luther and his break with the Church. The diet of Worms. The growth of Lutheranism. The Augsburg Confession. The peace of Nuremberg.

*b—The English Reformation.* The Oxford reformers. The attitude of Henry VIII. toward reform. The divorce question. The English Church independent of the papacy. Its organizations and doctrines.

*c—The Counter Reformation and the Struggle for Supremacy.* Religious and political conflicts, Attempts at compromise. Reforms within the Roman Catholic church. The Jesuit order. Close of the conflict. Permanent results.

Mr. Putnam is Assistant Professor of History and Political Science in Illinois College, whence he received his degrees. He has pursued graduate work at the University of Chicago for several years.

## Oratory.

WILLIAM MATHER LEWIS, A. B.

Offers the following single lectures.

*a—Contemporary American Authors.* A critical analysis of the work of the prose and verse

writers of today. A comparison between their work and that of authors of the eighteenth century and the Elizabethan period. The work of all authors discussed is illustrated by readings carefully chosen from their best writings.

*b—William Shakespeare, Dramatist.* The works of the immortal play writer studied from the standpoint of expression. Dramatic readings from the Merchant of Venice, Macbeth, Hamlet, etc. Description of the players, theatres, audiences and social conditions at the time in which the plays were originally produced.

Mr. Lewis, a graduate of Lake Forest University, is Instructor of English and Oratory at Illinois College, and is well known as an able and attractive public lecturer and reader. His entertainments and character sketches are deservedly popular.

## Philosophy And Education.

IRVING E. MILLER, A. M.

### THE EVOLUTION OF EDUCATION.

A course of six lectures in the History of Education.

These course give a birds-eye view of the development of education. Significant movements and dominant ideals are touched upon and their relation to the progress of education shown. The whole course is intended to culminate in an interpretation of the spirit of education in our own country.

- a—The Characteristics of Savage and Barbarian Education.*
- b—The Development of the Civic Ideal.*
- e—Scholasticism of the Middle Ages.*
- d—The Renaissance and the Rise of Humanism.*
- e—The Forerunners of Modern Education.*
- f—The Spirit of Education in the United States.*

### THE MAKING OF THE MAN.

A course of six lectures in the Psychology of Education.

The development of the child from birth to maturity is traced, especially the unfolding of the mental life. Play activities, imitation, suggestion, imagination, attention, development of voluntary control, and other topics of psychological interest are discussed in their relation to home and to school training. The significant periods, or stages of development, are treated with special reference to discovering principles which shall guide teacher and parent in their attitude toward the child at different stages in his career.

- a—The Basis of Educability.*
- b—The Period of Early Infancy and Home Education.*
- c—Later Infancy and the Kindergarten.*
- d—Childhood.*
- e—The Outlook upon Life; Adolescence.*
- f—Maturity; The Period of Responsibility and Specialization.*

The following single lectures are also offered.

*The Educational Ideals and Practices of the Jews in the time of Christ and the Apostles.*

*Plato's Estimate of the Educational Value of Mathematics.*

*The Educational Significance of Play.*

*The Pedagogy of Religious Instruction.*

*The Psychologist's Attitude toward the Soul.*

*The Educational Ideas of the German Emperor.*

Mr. Miller is Assistant Professor of Philosophy and Education in Illinois College. He has had a wide experience as a teacher and his lectures will be found to be eminently helpful and practical. During the past two years he has been a graduate student and Fellow in Philosophy at the University of Chicago under Prof. John Dewey.

RUPERT F. ASPLUND, A. B.

HORACE MANN.

A single lecture.

Horace Mann. Youth and training. Conditions of common schools of his time. His work as secretary of Massachusetts Board of Education. What the present school system owes to him.

Mr. Asplund has been for three years at Whipple Academy, of which he is Principal. After graduation from Illinois College, he taught in the common schools for two years. His experience and work have well fitted him to deal in a practical manner with pedagogical subjects.

## Physics.

JOSEPH H. HART, Ph. D.

A course of six lectures. Any one of the lectures will be delivered separately if desired.

*a—The Foundations of Science.* The concepts of time, space, and mass. Relations of science and religion. The physical status of life.

*b—The Mechanical Universe.* Simple fundamental principles. Application to mechanics, light, sound, heat, electricity, magnetism, etc.

*c—\*Sound.* Its nature, properties, and physiological effects. Theory of music.

*d—\*Electricity and Magnetism.* Their nature. Method of production. Relationship to each other and to other physical phenomena.

*e—Cathode and other Rays.* The nature and method of production of Cathode, X, and Uranium Rays, etc. Their chemical, physical, and physiological actions.

*f—Scientific Relations.* Relations of the sciences, their future development. The unity of physical phenomena.

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\*Illustrated by experiments or stereoptican. In the latter case a small extra fee will be charged.

## GENERAL PHYSICS (PRACTICAL)

A course of six lectures. Any one of the lectures will be delivered separately if desired.

*a—Transformations of Energy.* The various forms of energy. The necessary conditions for their availability by man. The question of efficiency.

*b—The Development of the Steam Engine.* Original form. Modern developments; their necessity and their creation of new needs.

*c—\*Power Plants.* Steam. Electricity. Water. Wind. Sun. Tide. Wave.

*d—\*Modern Applications of Electricity.* Telephone. Telegraph. Electric Furnace. Telegraphone. Phonograph. Electrolysis.

*e—The Problem of Light.* The question of efficiency. So called "cold light." Experiments and relative successes of various systems.

*f—Electricity direct from Coal.* The present process and its efficiency, etc. Possible methods, their weak points. Future developments.

Dr. Hart, who is Assistant Professor of Physics in Illinois College, obtained his degrees at Yale University, where he has also taught. He has carried out research work on the direct production of electricity from coal.

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\*Illustrated by experiments or stereoptican. In the latter case a small extra fee will be charged.

## Romance Languages.

EDWARD E. RUBY, A. M.

### ENGLISH WORDS OF LATIN ORIGIN.

A single lecture.

A discussion of the development of words borrowed from Latin and the Romance languages.

Mr. Ruby, after graduation from the Indiana University, engaged in teaching there. He is at present Assistant Professor of Romance Languages in Illinois College.





# GIFTS TO THE COLLEGE EQUIPMENT.

## 1900-1902.

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The following individuals and firms have given books or publications to the College:

John P. Altgeld.. . . . I	W. C. Conant.....I
C. H. Swan.....I	Advance Publishing Co.I
H. W. Lathe.....I	Ginn & Co.....I
D. T. Smith.....I	Ills. State His. Society.2
C. W. Shields.....I	State of Illinois.....4
Prof. I. E. Miller.....I	U. S. Government.....12
Elizur Wolcott.....14	Victor Koechl & Co....I

Gifts to the Chemical Department of Standard Industrial Products have been given by the following firms:

- The Standard Oil Co.
- The Glucose Sugar Refining Co.
- The Carborundum Co.
- The Pittsburg Reduction Co., (*Valuable specimens of Aluminum*).
- The Castner Electrolytic Alkali Co.
- Kirk Brothers, (*soaps and raw materials*).
- The Calcium Carbide Co.
- Richardson Lubricating Co.
- Laplin & Rand Powder Co.
- The German Kali Works, (*Potassium Compounds in the raw and finished state*).
- Berry Brothers (*Limited*), (*resins and vanishes*).
- Annom Glue Works.
- Ashland Iron and Steel Co.
- Dearborn Chemical Co., (*specimens showing action of hard water on boiler pipes and steam fittings*).
- Kutsoff, Pickhardt & Co., (*dyes and fabrics*).
- A. Klepstein & Co., (*dyes and fabrics*).
- The V. Koeckland Co., (*dyes and fabrics*).
- The Heller & Merz Co., Newark, N. J., (*A handsome set of seventy representative dyes and raw materials for their production.*)



# Whipple Academy

Preparatory Department of

Illinois College

1902-1903.

# ACADEMY CALENDAR. 1902-1903,

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1902.

*September 22-23. Monday and Tuesday Examination. Registration.*

*September 24. Wednesday. First Semester begins: 9:15 a. m.*

*November 26 to December 1. Wednesday noon to Monday noon. Thanksgiving Recess.*

*December 11, 1902, to January 6, 1903. Saturday to Tuesday 9:15 a. m. Christmas Recess.*

1903.

*February 9-13. Monday to Friday Mid-year Examinations.*

*February 16. Monday. Second Semester begins: 8:15 a. m.*

*February 22. Sunday. Washington's Birthday.*

*March 10. Tuesday. Whipple Prize Declamation.*

*February 12. Thursday. Lincoln's Birthday Commemorative Exercises.*

*March 17. Tuesday. Gymnasium Contest.*

*April 15-21. Wednesday noon to Tuesday, inclusive. Spring Recess.*

*June 15-19. Monday to Friday. Regular Examinations.*

*June 22. Monday. Whipple Anniversary.*

# FACULTY AND OFFICERS.

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CLIFFORD WEBSTER BARNES, A.M., B. D. President.

RUPERT FRANZ ASPLUND A.B., Principal, (1901-02.)  
*Latin and Greek.*

‡ WILLIAM MATHER LEWIS, A.B., Principal, (1902—.)  
*English and Oratory.*

\* JOHN BISHOP TINGLE, Ph. D.  
*Chemistry.*

\* JAMES BERTRAM OVERTON, Ph. D.  
*Biology.*

† IRVING ELGAR MILLER, A. M.  
*Mathematics.*

† JOSEPH HALL HART, Ph. D.  
*Physics.*

† MARTIN HENRY HAERTEL, B. S., Ph. B.  
*German.*

† EDWARD E. RUBY, A. M.  
*Latin.*

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\* Professor in Illinois College.

† Assistant Professor in Illinois College.

‡ Instructor in Illinois College.

## GENERAL INFORMATION.

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Whipple Academy is the oldest Institution of its kind in Illinois. Its graduates have done much toward the making of History in State and Nation. The faculty of Whipple Academy is made up of University trained specialists and the latest educational methods are used. The equipment is such that each course has been made most thorough. The ideals of time manhood are constantly kept before the student and no part of his development is neglected.

### ADMISSION.

Boys under fourteen are not admitted except by special arrangement with the Principal. Candidates for admission are supposed to have completed the English common branches. They must show certificates of graduation from county schools or of promotion to some good high school. Otherwise they must be prepared to pass careful examinations. Candidates for advanced standing must satisfy instructors, by certificate or examination, that they are prepared for the work they desire to do. Certificates should indicate the text-book studied, the exact amount of work done, the time spent upon the subject, and the grade. In the sciences, text-book work alone will not be excepted as a full equivalent for the courses in the Academy. As to the time of entrance, it is much better for the student to enter at the beginning of the first semester. An opportunity, however, is given for entering at the beginning of the



second semester. Testimonials of character will be required of all students.

#### TUITION AND FEES.

All tuition and fees are payable to the Bursar at the time of registration. No student will be enrolled until he presents a receipt from the Bursar. In exceptional cases, by depositing \$5.00 in addition to the registration fee, a student will be given a receipt in part. This deposit will be forfeited unless the remainder is paid within thirty days.

#### CLASSES AND COURSES.

The work of the Academy is distributed over three years, the object being to enable energetic student to accomplish in three years, the work done in high schools in four years. Each year is divided into semesters. Two courses are offered; one for those desiring to pursue classical and philosophical courses, and one for those who intend to take a scientific course. While it is primarily a preparatory school for Illinois College, Whipple Academy offers an elective course for those who wish to prepare for other institutions. Such subjects may be selected from Academy and College courses as are required for entrance to the Freshman class of the college which the special student expects to attend.

#### COURSE OF STUDY.

The following outline shows the arrangement of studies and the number of recitations per week. An hour is devoted to every recitation in each subject

except sciences in which more time is required on account of laboratory work.

### JUNIOR YEAR.

FIRST SEMESTER.		SECOND SEMESTER.	
Latin 1	5	Latin 2	5
Biology 1	5	Chemistry 1	5
English 1	4	English 2	4
Greek History 1	2	Greek History 2	2

### MIDDLE YEAR.

FIRST SEMESTER.		SECOND SEMESTER.	
Latin 3	5	Latin, 4	5
Mathematics 2	2	Mathematics 3	5
History 3	4	History 4	4
English 3	3	English 4	3

### SENIOR YEAR.

FIRST SEMESTER		SECOND SEMESTER.	
Latin 4	5	Latin 6	5
German 1	5	German 2	5
Mathematics 4	5	Mathematics 5	5
Physics 1	5	Physics 1	5
English 5	3	English 6	3

In the last year students of the Scientific course may take either Latin or German.

# OUTLINE OF INSTRUCTION IN EACH SUBJECT.

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## BIBLE STUDY.

Same as College Bible Study.

## BIOLOGY.

*1—Zoology.* 5 hours.

Half First Semester.

The simplest forms of animal life; the more complex forms of animal life; reproduction and the development of sex; function and structure; the life cycle; the struggle for existence; adaptation; animal communities; symbiosis and degeneration; protective resemblances; geographical distribution. Junior year. Three recitations and four hours laboratory work per week.

Text: Jordan and Kellogg, Animal Life.

*1—Botany.* 5 hours.

Half First Semester.

The elementary structure and functions of the various organs and parts of plants; the structure and arrangement of leaves; position and arrangement of leaves in relation to light; arrangement of shoots; relation of arrangement of shoots to habit and growth of plants; relation of roots to soil and moisture; devices for pollination; plant societies; principles of plant distribution. Three recitations and four hours laboratory work per week.

Text: Coulter, Plant Relations.

## CHEMISTRY.

1—*Introductory General Chemistry.* 3 hours.

Second Semester.

The work of this course is almost wholly laboratory in its nature and is intended as a general introduction to the science.

Physical and chemical changes. States of matter. Elements and compounds. Study of the following elements and of their more important derivatives; oxygen, hydrogen, nitrogen, carbon, fluorine, chlorine, bromine, iodine, sulphur, phosphorus, silicon, baron. The simpler laws of chemical combination. Special attention is given to the subjects of the atmosphere and water.

Text: Remson, Briefer Course of Chemistry.

## ENGLISH.

1 and 2—*Grammar and Literature.* 4 hours

Entire year.

Grammar; letter-writing; composition; drill in reading; Coleridge's *Ancient Mariner*; Lowell's *Vision of Sir Launfal*; Hawthorn's *House of Seven Gables*.

3 and 4—*Rhetoric and Literature.* 3 hours

Entire year.

Hill's *Rhetoric and Composition*; drill in reading; Elliot's *Silas Marner*; Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; The DeCoverly Papers; Pope's *Iliad*, Books; I, II, XXII, XXIV.

5 and 6—*Literature and Declamation.* 3 hours

Entire year

Physical Culture; Drill in public speaking; Preparation of essays; Shakespeare's *Merchant of Venice*; Ten-

nyson's *The Princess*; Macaulay's *Milton* and *Addison*; Burke's *Speech on Conciliation with America*.

## GERMAN.

Same as College German 1.

## HISTORY.

1 and 2—*Greek History*. 2 hours.

Entire year.

A history of Greek life and culture from the earliest accounts of the race to its conquest by the Romans.

Text: Myer, *Eastern Nations and Greece*.

3—*Roman History*. 4 hours.

First Semester.

The history of Rome from the earliest times to the fall of the empire.

Text: Myer, *Rome: Its Rise and Fall*.

4—*English History*. 4 hours.

Second Semester.

A brief history of the English people from the Roman conquest to the present time.

Text: Coman and Kendall, *History of England*.

## LATIN.

1—*Latin Lessons*. 5 hours.

First Semester.

A thorough drill in Latin forms and elementary syntax.

Text: Comstock, *First Latin Book*.

2—*Caesar*. 5 hours.

Second Semester.

Beginning Lessons reviewed. Caesar, Book I, Chapters 1-29 and Book II. Prose composition based on text. Classical Geography.

Text: Johnston, Revision of Lowe and Ewing's Caesar.

3—*Caesar Continued*. 5 hours.

First Semester.

Caesar; Gallic War. Books III and IV. Composition and classical geography continued.

Text: same as in 2.

4—*Cicero*. 5 hours.

Second Semester.

Six orations. Prose composition. Roman life and customs;

Text: Johnston, Cicero.

5—*Ovid and Virgil*. 5 hours.

First Semester.

Selections from Ovid, fifteen hundred lines. Prosody. Aeneid, Book I.

Text: Gleason, Ovid; Knapp, Aeneid.

6—*Virgil*. 5 hours.

Second Semester.

Books II, III, IV, and VI, the Aeneid. Study of Roman life and literature of the empire.

Text: Knapp, Aeneid.

## MATHEMATICS.

*2 and 3—Algebra.*

5 hours.

Entire year.

Fundamental operations, factoring, highest common factor, lowest common multiple, fractions, simple equations of first degree, inequalities, indeterminate equations, theory of exponents, square root, cube root, special higher roots, radicals including imaginaries, quadratic equations, simultaneous quadratic equations, special form of the higher equations, ratio and proportion, arithmetical and geometrical series, binomial theorem for any rational exponent. Special attention is given to accuracy, rapidity and freedom from working by rule.

Text: Wells, Essentials of Algebra.

*4 and 5—Geometry.*

5 hours.

Entire year.

Plane, Solid and Spherical. A careful drill on the fundamental theorems; much original work in proving theorems. Emphasis is laid upon rapidity in thinking generalizations, and freedom from mere acquirement of facts.

Text: Wells, Essentials of Geometry.

## PHYSICS.

*1—Elementary Physics.*

5 hours.

First Semester.

Properties of matter; mechanics of solids; mechanics of fluids; heat; magnetism and electricity; sound; light. The course is a combination of recitations, problems, and laboratory work. The student keeps a note-book, according to forms given, of seventy-five quantitative experiments preformed by himself.

Text: Carhart and Chute, Elements of Physics.



# SCHEDULE OF RECITATIONS.

	JUNIOR YEAR	MIDDLE YEAR	SENIOR YEAR
8:15	Latin	Algebra	Greek
9:30	Study Hall	Study Hall	Study Hall
10:30	English	Roman and English History	German Latin
11:30	Greek History		English
1:30	Biology Chemistry	Latin	Physics
2:30	Biology	English	Geometry
3:30	Bible—W.	Bible—W.	Bible—W.

# INFORMATION AND RECULATIONS.

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## THE ACADEMY LECTURE COURSE.

During the year 1902-03 an especially attractive and helpful lecture course will be offered to the students of Whipple Academy. This course will consist of twenty lectures on the most practical subjects by men who are leaders in their particular fields of work. Among these lectures will be several on Politics, Banking, General Business Methods, Law, Medicine, Theology, and Music. This course is offered free to all students of the Academy.

## RELIGIOUS ADVANTAGES.

Jacksonville has several churches some one of which every student is expected to attend. Daily attendance at chapel is compulsory. A Young Men's Christian Association is maintained by the students of the College and Academy, and furnishes a splendid opportunity for training in christian work.

## ANNIVERSARY EXERCISES.

The Whipple Anniversary Exercises are held on Monday of Commencement week. Certificates are then awarded to all who have completed the regular work, and to those, who, in the opinion of the Faculty, have creditably finished an elective course equal in amount and quality to the prescribed work. At the Commencement Exercises, essays and declama-

tions are given by the graduates. Eight students are appointed by the Faculty to represent the class, on the following considerations: First, general proficiency in the studies pursued; second, special excellence in rhetoric and elocution; third, gentlemanly conduct throughout the entire course. The following were the appointments made for 1901:

Walter Bellatti.	Robert Emmett Harmon.
Clarence Edwin Carter.	Warren Case Nixon.
Orville Leroy Crum.	Lathrop Huntington Ward.
Frederick Monroe Duckles.	

#### PRIZES.

During the year 1902-03, prizes known as the Whipple Prizes, ten dollars for the first and seven dollars for second, will be given to the members of the Senior class for the best work in declamation. The Smith prize of fifteen dollars is also offered to the students of the Senior class for the best essay and composition work during the year. All prizes are awarded in books, chosen by the successful student and approved by the Principal. Since the publication of the last catalogue, prizes have been awarded as follows:

#### WHIPPLE PRIZES, 1901.

First—Warren Case Nixon, Jacksonville.

Second—{ Roy Willard Rawlings, Jacksonville.  
Clarence Edwin Carter, Jacksonville.

#### SMITH PRIZES, 1901.

Warren Case Nixon, Jacksonville.

## LIBRARY.

Students of the Academy have access to the College Library, the value of which has been greatly increased by its thorough reorganization and the introduction of the Dewey system of classification. The number of volumes is over 10,000. The reading room adjoining the library is well supplied with papers and periodicals. To supplement the work in English a reading course is provided, for which books may be drawn from the College Library and read under the direction of the Principal.

## LITERARY SOCIETY.

Further training is obtained in an excellent literary society which meets on Friday evening of each alternate week. This society is open to all academy students over fifteen years of age and affords thorough practice in declamation, essay, debate, and parliamentary usage. During the past year the members of the society have refitted their hall, making it an ideal society room.

## AID TO STUDENTS.

To aid worthy students in obtaining an education, the Whipple Scholarship and Bishop Scholarship have been founded, each paying the tuition of one student. This aid, however, will be withdrawn from any student who does not maintain an average grade in all his studies of at least 80 per cent, or who falls below 70 per cent in any study. Besides direct help offered, the Principal will be glad to assist in finding remunerative employment for those who wish it. Every year some of the best students

find work, either at the Academy or in some of the homes of Jacksonville, by means of which they materially aid themselves in securing an education. Application for work may be made to the principal or to R. W. Cooke who has charge of the employment bureau maintained by the Christian Association.

#### LODGING.

Steam heated rooms may be had in Crampton Hall at the rate of \$12.50 per semester. A deposit of \$5.00 must be made when the room is reserved and the balance paid within thirty days from date of registration.

The accommodations are superior to those of ordinary college dormitories. Each suite of rooms, consisting of a study room fifteen feet square and a bedroom eight by twelve, is occupied by two students, and is neatly cared for every day by a janitor. The study room is furnished with a large study table, and the bedroom with a double woven wire mattress bed, as permanent articles of furniture. Other articles of furniture, such as chairs, washstands, with appurtenances, and bedding, are furnished by the students themselves at light expense.

Each student occupying rooms in Crampton Hall is required to deposit with the Bursar \$10.00 at the beginning of each semester, to be applied by him to the payment of gas bills and possible damages during the semester. Any money not so applied will be returned to the student at the close of the semester, or at such time as the student may have leave of absence for the remainder of the semester.

Each room is supplied with a meter, so that its occupants pay for exactly the amount of gas consumed.

Students vacating rooms for any cause are required to remove their furniture within one week. No fees, rent, or tuition will be refunded except in cases of sickness. In this event the student must secure from a physician a certificate of his inability to remain in school, when half the amount paid for rent and tuition will be refunded, if application is made before the middle of the semester.

#### BOARD.

Students maintain a boarding club in a commodious building on the campus, well supplied by the College with all the necessary table and other furniture, and obtain good board at its actual cost. The price of board is estimated at \$2.50 per week. The cost of board in private families, with furnished room, is from \$3.50 to \$4.50 per week.

#### SCHEDULE OF EXPENSES.

The following is the schedule of expenses for each semester:

Required of all:

Tuition.....	\$22.50
Library and gymnasium fee.....	2.50

Special fees:

Biology.....	2.00
Physics.....	2.00
Chemistry.....	6.00

## ESTIMATE BY THE YEAR.

Tuition.....	45.00
Library and gymnasium fee.....	5.00
Room rent in Crampton Hall.....	25.00
Board at the College Club.....	90.00
Books, society fees, etc.....	15.00
Light.....	5.00
	<hr/>
	190.00

## REGULATIONS.

Careful records are kept of the attendance, conduct, and scholarship of students, formal reports being sent to parents at the middle and end of each semester. No student is allowed to be absent without excuse. When possible, an unavoidable absence should be previously excused, and no student not living in the city should leave town without permission of the Principal.

In order that a student may remain in a class, he must maintain a grade of not less than 70 per cent. If a student does not maintain this grade, he will be admonished and his parents informed. If, after due trial, he is still unable to do the work he will be dropped from the class.

Quiet, gentlemanly conduct is required of students at all times. Instructors will furnish every incentive and take all care to encourage the development of the best in each individual student.

No student will be allowed to remain in the Academy who does not give evidence of diligent study, or who is unwilling to yield cheerful obedience to the rules of the institution.



At the beginning of the course there must be, for the student, a clear understanding of the work he is to do. No part of this work can be dropped without the permission of the Principal.

Recitations are conducted from 8:15 a. m. to 3:30 p. m. Each student is required to be present in the Academy Study Hall for one hour a day for study and assistance in the preparation of lessons. An instructor is always in charge, who gives his whole attention to individual instruction and explanation. This has proved a valuable feature of the work of the Academy, supplementing the work of the class room, and giving students the advantage of private instruction. Absences from Study Hall are reported as strictly as absences from recitations.

#### PHYSICAL TRAINING.

Opportunity for physical exercise is given under a competent instructor. Students are required to attend the gymnasium, where they are given systematic drill in club-swinging, dumb-bells, etc., the object being to strengthen the muscles most requiring development. In the class room the students are given physical culture instruction. Correct poise, breathing and the relationship of organs and muscles are studied. In outdoor athletics the students are carefully trained in track and field work. During the winter a cross-country team is maintained. On the Campus are well kept foot-ball and base-ball fields and tennis courts.

# DEGREES CONFERRED, 1900-1901.

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## MASTER OF ARTS.

Myron Edward Duckles

## BACHELOR OF ARTS.

Charles Clinton Clement	Melvin Robert Laird
Elbert Adrian Collins	William Sheppard Sanford
Albert E. Fell	Arthur Elmer Sneed
George Jackson Kneeland	Knowles Shaw Tontz

## BACHELOR OF PHILOSOPHY.

Clayton Jackson Barber	Cassius Miller Stanley
Fredrick Coffin Coleman	Cash Whitney Ufford

## BACHELOR OF SCIENCE.

Cyrus McDoel Buckley	Thomas V. Hopper.
Albert Henry Dollear	Albert Caldwell Metcalf
Dwight Beverly Eames	John Allen Schmink
Frederick LaRue Gregory	

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## COMMENCEMENT SPEAKERS,

JUNE, 1901.

### PHILOSOPHICAL ORATION.

William Sheppard Sanford  
Cassins Miller Stanley  
Knowles Shaw Tontz

### HIGH ORATION.

Clayton Jackson Barber  
Frederick Coffin Coleman  
Albert Caldwell Metcalf  
Arthur Elmer Sneed  
Albert E. Fell.

# LIST OF COLLEGE STUDENTS, 1901-1902.

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## SENIORS.

Lloyd Lackland Adams	<i>Jacksonville</i>
1109 West State St.	
Leon Littlefield Brockman	<i>Quincy</i>
25 Crampton	
William Henry Cocking	<i>Jacksonville</i>
310 West North St.	
Ralph Wendling Cooke	<i>Bowen</i>
14 Crampton	
Egerton Lafayette Crispin	<i>Salem, N. J.</i>
14 Crampton	
Elbert Hugh Filson	<i>Concord</i>
404 Kosciusko St.	
Elvin David George	<i>Staunton</i>
26 Crampton	
Wilber Walter Hatfield	<i>Pittsfield</i>
236 Park St.	
E. Bentley Hamilton, Jr.	<i>Quincy</i>
1225 West College Ave.	
Selden Spencer Leonard	<i>Jacksonville</i>
211 South LaFayette St.	
John Williams McHarry	<i>Havana</i>
8 Crampton	
Robert Lincoln McNeil	<i>Berlin</i>
711 South Diamond St.	

Emanuel Conceicao Pires	<i>Jacksonville</i>
1074 North Main St.	
Harlan Eugene Read	<i>Jacksonville</i>
25 Crampton	
John Ralph Roach	<i>Concord</i>
5 Crampton	
Martin Leslie Smith	<i>Jacksonville</i>
506 Jordan St.	
Edwin Leroy Stimpson	<i>Jacksonville</i>
760 West North St.	
James Garfield Tontz	<i>Highland</i>
21 Crampton	
Jesse Madison Thompson	<i>Pittsfield</i>
229 Lockwood Place	
Paul Wilbur Wemple	<i>Waverly</i>
316 Woodland Place	
James Gilham Winterbottom	<i>Jacksonville</i>
1326 West State St.	

## JUNIORS.

Francis William Bristow	<i>Virginia</i>
921 West State St.	
George Everett Doying, Jr.	<i>Jacksonville</i>
921 Grove St.	
Ralph Irwin Dunlap	<i>Jacksonville</i>
1025 West State St.	
Homer Ernest Fullenwider	<i>Mechanicsburg</i>
830 West College Ave.	

William George Goebel	<i>Meredosia</i>
23 Crampton	
William Murray Goff	<i>Ashland</i>
1025 West College Ave.	
Abraham R. Gregory, Jr.	<i>Jacksonville</i>
825 South East St.	
Arthur Oliver Lindsay	<i>Decatur</i>
28 Crampton	
William Adams Lippincott	<i>Jacksonville</i>
1120 West College Ave.	
Oswell Laurie McNeil	<i>Berlin</i>
711 South Diamond St.	
Duval S. O'Neal	<i>Arnold</i>
23 Crampton	
Arthur Scott	<i>Jacksonville</i>
800 East College Ave.	
Lawrence Elmer Stone	<i>Lane</i>
28 Crampton	
John Antonio Vasconcellos	<i>Jacksonville</i>
324 East College Ave.	
George William Watson	<i>Lynnville</i>
9 Crampton	
Sumner White	<i>Knox City, Mo</i>
711 West College St.	
Joseph Erastus Winterbottom	<i>Jacksonville</i>
1326 West State St.	

## SOPHOMORE.

Walter Henry Balke	<i>Jacksonville</i>
364 West College St.	

Albert Crum Baxter	<i>Ashland</i>
814 West College Ave.	
Edward Philip Brockhouse	<i>Concord</i>
19 Crampton	
Chauncey S. Conger	<i>Carmi</i>
19 Crampton	
Charles Mosley Eames	<i>Jacksonville</i>
622 West State St.	
Arthur Frederick Ewert	<i>Jacksonville</i>
331 East State St.	
Melville Talbot Kennedy	<i>Jacksonville</i>
1030 Grove St.	
Benjamin Franklin Lane	<i>Riggston</i>
1026 West College Ave.	
Evert Dean Martin	<i>Jacksonville</i>
500 West Morton Ave.	
George Irving Scott	<i>Chandlerville</i>
252 Park St.	
Bradford Sturtevant	<i>Kushla, Ala.</i>
252 Park St.	
Lawrence Newton Wylder	<i>Jacksonville</i>
513 North Church St.	

## FRESHMEN.

Wilfred Smith Ayers	<i>Jacksonville</i>
1052 West State St.	
Walter Bellatti	<i>Jacksonville</i>
605 West College Ave.	

- Edward Tanner Brown *Waverly*  
316 Woodland Place
- William Barr Brown, Jr. *Manzanola, Col.*  
234 West College Ave.
- Clarence Edwin Carter *Jacksonville*  
615 South East St.
- Frederick Putman Cowdin *Chapin*  
603 North Fayette St.
- Frederick Monroe Duckles *Carlinville*  
305 Woodland Place
- Heye Eagen Eilers *Gillespie*  
1025 Morton Ave.
- Robert Emmett Harmon *Jacksonville*  
832 South Main St
- Edwin Dronsfield Jackson *Jacksonville*  
832 South Clay Ave.
- Warren Case Nixon *Jacksonville*  
1001 West State St.
- Joseph Hodge Pires *Jacksonville*  
1074 North Main St.
- Roy Willard Rawlings *Franklin*  
613 South Church St.
- Charles Moore Russel *Jacksonville*  
824 West State St.
- Lathrop Huntington Ward *Jacksonville*  
1025 West College Ave.



# LIST OF ACADEMY STUDENTS.

1901-1902.

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## SENIOR YEAR.

Charles Arthur Carriel	<i>Jacksonville</i>
Irving S. Chenoweth	<i>Chambersburg</i>
L. Charles Collins	<i>Palmyra</i>
Frank Edmond Coultas	<i>Murrayville</i>
Charles Edward DeFreitas	<i>Jacksonville</i>
Heye E. Eilers	<i>Gillespie</i>
Harold Chandler Gay	<i>Jacksonville</i>
Erle Josiah Hurie	<i>Loyd</i>
Wiley Linn Hurie	<i>Loyd</i>
Thomas Emerson Kirby	<i>Petersburg</i>
Marshall Paul McDonald	<i>Jacksonville</i>
Barney E. Miller	<i>Kinderhook</i>
William Wentworth Odiorne	<i>Barry</i>
Ira Eneas Scott	<i>Franklin</i>
Frederick Linn Spencer	<i>Jacksonville</i>
Albert Frank Streuter	<i>Jacksonville</i>
Jay Wemple	<i>Waverly</i>

## MIDDLE YEAR.

Floyd Eugene Boston	<i>Orleans</i>
Alden Brown	<i>Jacksonville</i>
James Weir Elliott, Jr.,	<i>Jacksonville</i>
Roy D. Funk	<i>Jacksonville</i>
William Thomas Harmon	<i>Jacksonville</i>
Charles William Kneeland	<i>Jacksonville</i>
William Edwin Monson	<i>Beardstown</i>
George Julias Orear	<i>Jacksonville</i>
Clarence Leroy Rice	<i>Jacksodville</i>
Cole Yates Rowe	<i>Jacksonville</i>
Thomas Earle Wylder	<i>Jacksonville</i>

## JUNIOR YEAR.

Horace Reed Balch	<i>Jacksonville</i>
Fletcher Jordan Blackburn	<i>Jacksonville</i>
George G. Griffin	<i>Jacksonville</i>
James Frank Guyette	<i>Jacksonville</i>
William Roy Hamline	<i>Sinclair</i>
Austin Kingsley	<i>Jacksonville</i>
Wayne Stillman Nelson	<i>Jacksonville</i>

Raymond Robison	<i>Jacksonville</i>
Frank Barlow Schermerhorn	<i>Jacksonville</i>
Albert Carlton Shibe	<i>Jacksonville</i>
Franklin Vierra	<i>Hilo, Hawaii</i>
George Vierra	<i>Hilo, Hawaii</i>





# CATALOGUE

OF

# ILLINOIS COLLEGE



SEVENTY-FOURTH YEAR

ANNOUNCEMENTS 1903-1904

REGISTER 1902-1903

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JACKSONVILLE, ILLINOIS

APRIL, 1903

## CORRESPONDENCE.

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Correspondence addressed simply to ILLINOIS COLLEGE may be expected to reach the proper department, but in order to avoid delay and possible confusion correspondents are requested to note the following directions:

Communications relating to matters directly in the charge of the Trustees should be addressed to the SECRETARY OF THE TRUSTEES. Correspondence bearing upon the general interests of the College or Whipple Academy should be addressed to the PRESIDENT. Inquiries concerning conditions of entrance to the College, whether by examination or certificate, concerning undergraduate courses, and other matters pertaining to College students should be addressed to the DEAN. Inquiries concerning entrance to Whipple Academy and other matters pertaining to Academy students should be addressed to the PRINCIPAL. Inquiries concerning the Conservatory of Music should be addressed to the DIRECTOR. Requests for the Annual Catalogue and other publications should be addressed to the PRESIDENT'S SECRETARY. Inquiries or information concerning alumni should be sent to the LIBRARIAN.



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# COLLEGE CALENDAR, 1903-1904.

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1903.

- September 21.*      *Monday.* Examinations begin for admission to Freshman class.
- September 22.*      *Tuesday.* Registration for the First Semester.
- September 23.*      *Wednesday.* FIRST SEMESTER BEGINS, 9:00 a. m.
- November 16.*      *Monday.* Last day for handing in subjects for Senior Prize Orations.
- November 25 to November 30.* *Wednesday noon to Monday noon.* Thanksgiving Recess.
- December 10.*      *Thursday.* Winter meeting of the Board of Trustees at Chicago.
- December 23, 1903 to January 4, 1904.* *Wednesday noon to Tuesday morning, 8:15.* Christmas Recess.

1904.

- January 15.*      *Friday.* Last day for handing in choice of studies for the Second Semester.
- January 28.*      *Thursday.* Day of Prayer for Colleges.
- February 3 to February 5.* *Wednesday to Friday inclusive.* Final Examinations for the First Semester.
- February 5.*      *Friday.* First Semester ends.
- February 6.*      *Saturday.* SECOND SEMESTER BEGINS. Registration for Second Semester, 8:00 a. m. to 12:00 m.
- February 8.*      *Monday, 8:15 a. m.* Lectures and Recitations of Second Semester begin.

- February 12.*      *Friday.* Lincoln's Birthday Commemorative Exercises.
- February 22.*      *Monday.* Washington's Birthday. A holiday.
- February 23.*      *Tuesday.* Last day for handing in orations for Senior Prize Orations.
- March 8.*          *Tuesday.* Whipple Prize Declamations, 8:00 p. m.
- April 1 to April 5.* *Friday morning to Tuesday morning,* 8:15. Easter Recess.
- April 22.*          *Friday.* Senior Oratorical Contest, 8:00 p.m.
- May 6.*            *Friday.* Sophomore Prize Declamations, 8:00 p. m.
- May 30.*          *Monday.* Memorial Day. A holiday.
- June 1 to June 3.* *Wednesday to Friday inclusive.* Final examinations for the Second Semester.
- June 3.*            *Friday.* Conservatory Alumnæ Concert, 8:00 p. m. Society Love Feasts, 8:00 p. m.
- June 4.*            *Saturday.* Conservatory Commencement, 3:00 p. m. Junior Prize Speaking, 8:00 p. m.
- June 5.*            *Sunday.* Baccalaureate Sermon.
- June 6.*            *Monday.* Osage Orange Day. The Senior Promenade, 8:00 p. m.
- June 7.*            *Tuesday.* Class Day. Annual meeting of the Board of Trustees, 10:00 a. m. Whipple Academy Commencement, 3:00 p. m. Phi Alpha Triennial Reunion.
- June 8.*            *Wednesday.* Annual Commencement.

- September 19.*      *Monday.* Examinations begin for admission to the Freshman class.
- September 20.*      *Tuesday.* Registration for the First Semester.
- September 21.*      *Wednesday.* FIRST SEMESTER BEGINS,  
9:00 a. m.



# TRUSTEES, OFFICERS, AND COMMITTEES.

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## PRESIDENTS.

REV. EDWARD BEECHER, D. D.	- - -	1830-1844
REV. JULIAN M. STURTEVANT, D. D., LL. D.	-	1844 1876
REV. EDWARD A. TANNER, D. D.	- -	1882-1892
JOHN E. BRADLEY, Ph. D., LL. D.	- - -	1892-1899
REV. CLIFFORD WEBSTER BARNES, M. A.	-	1900 —

## ACTING PRESIDENTS.

RUFUS C. CRAMPTON, LL. D.	- - - -	1876-1882
MILTON E. CHURCHILL, Litt. D.	- - - -	1899-1900

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## TRUSTEES.

CLIFFORD W. BARNES,	- - - -	Jacksonville
<i>President.</i>		
WILLIAM BROWN,	- - - -	Chicago
<i>Monadnock Building.</i>		
HENRY P. CROWELL,	- - - -	Chicago
<i>American Cereal Co.</i>		
BERNARD A. ECKHART,	- - - -	Chicago
<i>Eckhart &amp; Swan Milling Co.</i>		
DAVID R. FORGAN,	- - - -	Chicago
<i>First National Bank.</i>		
EGBERT W. GILLETT,	- - - -	Chicago
<i>Gillett Chemical Works.</i>		
HOWARD VAN D. SHAW,	- - - -	Chicago
<i>Monadnock Building.</i>		

CLINTON L. CONKLIN, - - - - -	Springfield
<i>South Fifth St.</i>	
LOGAN HAY, - - - - -	Springfield
<i>South Sixth St.</i>	
CHARLES E. RIDGELY, - - - - -	Springfield
<i>Ridgely National Bank.</i>	
GOV. RICHARD YATES, - - - - -	Springfield
<i>Governor's Mansion.</i>	
REV. SAMUEL H. DANA, - - - - -	Quincy
<i>Congregational Church.</i>	
JOHN A. AYERS, - - - - -	Jacksonville
<i>Ayers National Bank.</i>	
JUDGE CHARLES A. BARNES, - - - - -	Jacksonville
<i>Room 2, Duncan Building.</i>	
HARRY M. CAPPS, - - - - -	Jacksonville
<i>J. Capps &amp; Sons, Ltd.</i>	
MILLARD F. DUNLAP, - - - - -	Jacksonville
<i>Dunlap, Russell &amp; Co., Bankers.</i>	
JUDGE EDWARD P. KIRBY, - - - - -	Jacksonville
<i>232½ West State Street.</i>	
DR. THOMAS J. PITNER, - - - - -	Jacksonville
<i>215 West College Ave.</i>	
CHARLES S. RANNELLS, - - - - -	Jacksonville
<i>West College Avenue.</i>	
FRANK ROBERTSON, - - - - -	Jacksonville
<i>Jacksonville National Bank.</i>	
JULIUS E. STRAWN, - - - - -	Jacksonville
<i>331 West College Ave.</i>	
JUDGE OWEN P. THOMPSON, - - - - -	Jacksonville
<i>Court House.</i>	

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 ALUMNI TRUSTEES.

HON. WM. J. BRYAN, - - - - -	Lincoln, Neb.
<i>"The Commoner," Lincoln, Neb.</i>	
JULIAN P. LIPPINCOTT, - - - - -	Jacksonville
<i>Room 3, Ayers Bank Building.</i>	

GEO. L. MERRILL, - - - - Jacksonville  
*Journal Building.*

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JULIAN P. LIPPINCOTT,  
*Secretary of the Trustees.*

JOHN A. AYERS,  
*Treasurer.*

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## COMMITTEES.

*Endowment Committee*—D. R. FORGAN, Chairman.

E. W. GILLET, B. A. ECKHART, HOWARD V. D.  
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 LY, E. P. KIRBY, T. J. PITNER, JULIUS E. STRAWN.

*Finance Committee*—M. F. DUNLAP, Chairman.

H. M. CAPPS, C. A. BARNES.

*Buildings and Grounds*—J. P. LIPPINCOTT, Chairman.

C. S. RANNELLS, S. H. DANA.

# FACULTY.

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CLIFFORD WEBSTER BARNES, President,\*

*Professor of Sociology.*

A. B., Yale University, 1889; B. D., *ibid.*, 1892; M. A., University of Chicago, 1893; Fellow in Church History, *ibid.*, 1892-93; Resident worker, Hull House Social Settlement, 1893-94; Pastor, Chicago, 1894-97; Student, Mansfield College, Oxford, England, 1898; Director of Social and Religious Work for students, Paris, France, 1898-99; Instructor in Sociology and Director of Social Settlement work, University of Chicago, 1899-1900.

HIRAM KINNAIRD JONES,

*Emeritus Professor of Philosophy.*

A. B., Illinois College, 1844; M. A., 1847; M. D., 1846; LL. D., 1878; Founder, Concord School of Philosophy, 1879; Lecturer on Greek Philosophy, *ibid.*, 1879-89; President American Akademie, 1878; Professor of Philosophy, Illinois College, 1886-1900.

FREDERICK WARREN SANFORD,

*Professor of Latin.*

B. S., Illinois College, 1890; A. B., *ibid.*, 1894; M. A., *ibid.*, 1902; Teacher in Public Schools, 1890-91; Instructor in Latin, Jacksonville High School, 1891-92; Instructor in Latin and Greek, Whipple Academy, 1892-94; Graduate Student, University of Chicago, 1894-95; Instructor in Latin, Illinois College, 1895-97; Professor of Latin, Illinois College, 1897—; Absent on leave, 1901-1902, member American School of Classical Studies in Rome.

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\*With the exception of the President the names in each group are arranged in the order of seniority of appointment.

JOHN GRIFFITH AMES, JR.,

*Professor of English.*

A. B., Johns Hopkins University, 1894; B. Litt., Oxford University, England, 1899; Graduate Student, Harvard University, 1894-95; Instructor in English, Kenyon College, Gambier, Ohio, 1895-96; Professor of English, *ibid.*, 1896-97; Assistant Professor of English, Illinois College, 1900-1901; Professor of English, Illinois College, 1901——.

JOHN BISHOP TINGLE,

*Professor of Chemistry.*

Owens College, Manchester, 1884-1887; Ph. D., Munich, 1889; Demonstrator in Chemistry, Heriot-Watt College, Edinburgh, 1889-90; Research Assistant in Organic Chemistry, Royal College of Science, London, 1890; Lecturer in Chemistry, Merchant Venturers' Technical College, Bristol, 1890-92; Lecturer in Chemistry, Gordon's College, Aberdeen, 1892-96; Organic Research Laboratory, University of Pennsylvania, 1897; Instructor in Chemistry, Lewis Institute, Chicago, 1897-1901; Professor of Chemistry, Illinois College, 1901——.

JAMES BERTRAM OVERTON,

*Professor of Biology.*

Ph. B., University of Michigan, 1894; Ph. D., University of Chicago, 1901; Assistant Principal of the Public High School, Black River Falls, Wisconsin, 1894-95; Senior Master in Mathematics, St. John's Military Academy, Delafield, Wisconsin, 1895-98; Graduate Student in Botany and Zoology, University of Chicago, 1898-1900; Fellow in Botany, University of Chicago, 1900-1901; Graduate Assistant in Botany, University of Chicago, Summer Quarter, 1901; Professor of Biology, Illinois College, 1901——.

FRANK MARION MORRISON, Dean,  
*Professor of Mathematics.*

A. B., University of Michigan, 1892; Instructor in Mathematics, High School, Elkhart, Ind., 1892-94; Instructor in Mathematics, High School, Sioux City, Iowa, 1894-95; Graduate Student in Mathematics, University of Chicago, 1896-99; Vice President and Instructor in Mathematics, Grand Prairie Seminary, Onarga, Ill., 1899-1900; Instructor in Mathematics, Illinois College, 1900-1901; Assistant Professor of Mathematics, Illinois College, 1901-1902; Acting Dean, 1902; Professor of Mathematics, 1902—.

FREDERICK SMITH HAYDEN, College Chaplain,  
*Professor of Philosophy and Biblical Literature.*

A. B., Yale University, 1869; B. D., *ibid.*, 1874; D. D., Illinois College, 1891; Lecturer on Theism and Evidences of Christianity, Illinois College, 1899-1902; Professor of Philosophy and Biblical Literature, Illinois College, 1902—.

CHARLES HENRY RAMMELKAMP,  
*Professor of History.*

Ph. B., Cornell University, 1896; Ph. D., Cornell University, 1900; Fellow in American History, Cornell University, 1896-97; Instructor in American History, *ibid.*, 1897-1900; Student, University of Berlin, 1900-1901; Instructor in History Leland Stanford Jr. University, 1901-1902; Assistant Professor of History, Illinois College, 1902-1903.

JANE SHERZER, Dean of Women,  
*Professor of English Philology.*

Ph. B., University of Michigan, 1893; M. A. and Ph. D., University of Berlin, Germany, 1902; Principal of High School, Franklin Ohio, 1882-85; Instructor in English, Oxford College, Oxford, Ohio, 1889-91; Principal, *ibid.*, 1892-94; Principal of Academy for Young

Women, Jacksonville, Illinois, 1895-99; Student in Jena, Germany, 1891; Student in Zurich, Switzerland, 1892; Student in Paris, France, 1894; Graduate Student, University of Berlin, 1899-1902.

WALTER HOWE JONES,

*Professor of Piano, Organ and Composition.*

Pupil of Amy Fay, Chicago, Ludwig Deppe and Teresa Carreno, Berlin, Germany, (Piano); Clarence Eddy (Organ); Frederick Grant Gleason, Chicago, and H. von Herzogenberg, Berlin, (Harmony and Composition); Professor of Piano and Harmony, DePauw University, Greencastle, Ind., 1892-95; Director School of Music, University of Illinois, 1895-1901; Director Illinois Conservatory of Music, 1901—.

MARTIN HENRY HAERTEL,

*Assistant Professor of German.*

B. S., St. Charles College, 1895; Instructor in German and French, Red Wing Lutheran Seminary, Red Wing, Minn., 1898-1900; Graduate Student in German Philology and Literature, University of Chicago, Summers 1898, 1900, 1900-1901; Ph. B., University of Chicago, 1901; Instructor in German, Illinois College, 1901-1902; Assistant Professor of German, Illinois College, 1902-1903.

EDWARD EARNEST RUBY,

*Assistant Professor of Romance Languages.*

A. B., Indiana University, 1897; M. A., *ibid.*, 1901; Tutor in Greek, Indiana University, 1897-98; Tutor in French, *ibid.*, 1898-99; Instructor in French, *ibid.*, 1900-1901; Instructor in Latin, Illinois College, 1901-1902; Assistant Professor of Romance Languages, Illinois College, 1902-1903.

FRED HARVEY HALL CALHOUN,

*Assistant Professor of Physics and Geology.*

B. S., University of Chicago, 1898; Ph. D., University of Chicago, 1902; Fellow in Geology, University of



Chicago, 1900-1902; Assistant in Physiography and Field Geology, University of Chicago, 1899-1902; Instructor in Physiography, University of Chicago, Correspondence-Study Department, 1899; Assistant Geologist, United States Geological Survey; Assistant Professor of Physics and Geology, Illinois College, 1902—.

WILLIAM MATHER LEWIS,

Principal of Whipple Academy.

*Assistant Professor of English and Oratory.*

A. B., Lake Forest University, 1900; M. A., Illinois College, 1902; Student, Cumnock School of Oratory, 1899-1900; Student, Emerson College of Oratory, 1901; Fellow in English, Illinois College, 1900-1901; Instructor in English and Oratory, Illinois College, 1901-1903.

JOHN MARTIN REDPATH,

*Instructor in Greek.*

A. B., University of Chicago, 1901; Assistant Instructor, High School, Helena, Mont., 1897-98; Private Tutor, Chicago, and Student, University of Chicago, 1899-1901; Instructor in Greek, Illinois College, 1902—.

STELLA LENORE COLE,

*Instructor in German and French.*

A. B., Indiana University, 1896; A. B., University of Chicago, 1900; Student in Paris and Berlin, 1896-97; Instructor in German, Indianapolis High School, 1897-98; Graduate Student, University of Chicago, 1898-1900; Instructor in German and French, Academy for Young Women, Jacksonville, Ill., 1900-1901; Student, University of Berlin, 1902-03.

FRANK PARSONS NORBURY,

*Instructor in Psycho-Physics.*

M. D., Long Island College Hospital, 1888; Resident Physician, Pennsylvania Institution for Feeble Minded

Children, 1888; Assistant Physician, Illinois Central Hospital for the Insane, 1888-93; Lecturer on Nervous and Mental Diseases, Keokuk Medical College, 1893; Professor of Nervous and Mental Diseases, St. Louis College of Physicians and Surgeons from 1894; Lecturer on Cranio-Cerebral Anatomy and Surgery in Woman's Medical College, St. Louis, 1894; Associate Editor of the Medical Fortnightly of St. Louis; Lecturer on Psycho-Physics, Illinois College, 1894-1902.

CAROLYN S. GREENE,

*Instructor, Whipple Academy.*

MRS. HELEN AYERS BULLARD,

*Instructor in Piano.*

Studied Piano in Jacksonville; with Nicode in Dresden, 1887-88; with Perabo, Boston, 1891; studied Organ with Hoeppner in Dresden, 1887-88; with Walter Hall in London, 1890; Instructor in Illinois Conservatory, 1890—.

MRS. MARGARET KIRK KUHNE,

*Instructor in Piano and Harmony.*

Graduate Illinois Conservatory, 1892; Post Graduate, *ibid.*, 1892-93; Graduate Chicago Conservatory, 1896-97; special pupil of Leopold Godowsky in Piano; Frederick Grant Gleason in Harmony, Counterpoint, Composition and Musical History; H. L. Walker in Voice; Teacher in Illinois Conservatory, 1897-1899; (with advanced work), 1902-1903.

GRACE ELLIOTT DUDLEY,

*Instructor in Voice.*

Studied with Karleton Hackett in Chicago, 1896-1901; Taught privately in Chicago, 1899-1901; Instructor in Illinois Conservatory, 1901—.

M. WILLY KUHNE,

*Instructor in Violin and Musical History.*

# GENERAL INFORMATION.

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## HISTORY AND ORGANIZATION.

Illinois College, the first institution in the history of the state to graduate a collegiate class, was founded in 1829 through the happy combination of two independent forces. One force, inspired by the missionary zeal of Rev. John M. Ellis of the Presbyterian church, was composed largely of residents of Jacksonville who were eager to give the youth of their state a liberal education. The other, an eastern organization known as the "Yale Band," consisted of seven men from Yale College who had pledged themselves to the cause of Christian education in the Home Mission fields of the growing West.

As early as 1827 an attempt had been made to establish a college at some point within five miles of Jacksonville; in 1828 the outline of a plan was prepared in which certain prominent citizens of Morgan, Green, Bond, Montgomery, Sangamon, and Madison counties agreed that if proper support were given, they would do everything possible "to build an institution worthy the patronage of an enlightened and free people, and to secure the accomplishment of our best wishes for the education of our youth, the hope and glory of the land." In 1829 the "Yale Band," composed of Theron Baldwin, John F. Brooks, Mason Grosvenor, Elisha Jenney, William Kirby, Julian M. Sturtevant and Asa Turner, brought with them to the West not only Christian zeal and cultivated talents, but also contributions made by friends in the East

amounting to \$10,000, with which to start the enterprise.

Before the close of 1829 a complete organization of Illinois College had been perfected; Beecher Hall, the oldest college building in the state, had been erected, and the first instructor, Julian M. Sturtevant, had entered upon his duties. In December, 1830, Rev. Edward Beecher, himself a graduate of Yale and an elder brother of Henry Ward Beecher, was called to the Presidency. Feeling deeply the great possibilities of the work, he gave up his large church on Boston Common, and for fifteen years did splendid service in developing the resources and in strengthening the foundations of the new institution.

A strong prejudice against "Yankees," which then existed in Illinois, together with fear of a theological bias in education, made it impossible at first to obtain a charter from the Legislature; it was not till 1835 that the College succeeded, by means of an "omnibus bill," in gaining legal recognition. In this year the first class was graduated with Richard Yates, well known as the War Governor of Illinois and afterward as United States senator, among its members.

In 1844 Dr. Beecher retired from the Presidency and was succeeded by Dr. Julian M. Sturtevant, whose memorable term of office continued thirty-two years. Prof. Rufus C. Crampton filled the position of Acting President from 1876 to 1882, when Rev. Edward A. Tanner was elected President, holding the office until his death in 1892. His successor was Dr. John E. Bradley, who resigned January 1900,

after eight years of service. Prof. M. E. Churchill performed the duties of Acting President until June 1900, when Rev. Clifford W. Barnes was elected President.

On January first, 1903, the Jacksonville Female Academy, a Presbyterian school founded in 1830 and the Illinois Conservatory of Music, founded 1871, were merged with Illinois College, it being agreed that the College and its preparatory department should become co-educational and that a majority of its Board of Trustees should become Presbyterian.

The general government and administration of the institution are vested in the Board of Trustees. The immediate direction of the college work is vested in the Faculty, who are empowered to determine the requirements for admission to the College, the standard of excellence in the several classes and the subjects and the methods of study. They also have the power to make such rules, subject to the judgment of the Trustees, as may be deemed best for the guidance and welfare of the students.

It is the aim of Illinois College to extend to young men and young women the benefits of a liberal education of a very high standard in the midst of a wholesome Christian atmosphere. The courses of instruction are so arranged as to give the best preparation for professional study and for active life, and at the same time to afford the broadest general culture. The instructors are specialists in their various departments, and the class rooms and laboratories are supplied with good appliances for illustration and experiment. The wide range of elective studies ena-

bles students to carry their work in any chosen department to a high degree of perfection, while the group system of studies prevents wasteful scattering of efforts.

## LOCATION AND SURROUNDINGS.

Jacksonville, with a population of 16,000, is one of the oldest and most beautiful towns in Illinois. It is located about 200 miles south-west of Chicago and 30 miles west of Springfield, at the intersection of the Chicago and Alton, the Wabash, the Chicago, Peoria and St. Louis, and the Jacksonville and St. Louis railroads. Its preeminence as an educational center in early days led many cultured families to make their homes in its neighborhood; in these later years the development of colleges and seminaries has given the place a distinct air of refinement. Its streets are well paved, lighted by electricity, and everywhere lined by arching elms. Its healthful climate and high moral tone render it a most favorable location for a Christian college.

The College campus occupies a partially wooded tract of land, some twenty acres in size, beautifully located on an elevation, about one hundred feet above the center of the city, known as College Hill. It is surrounded by the finest residences in Jacksonville.

## BUILDINGS AND EQUIPMENTS.

There are now ten buildings which go to make up the College plant, and among these may be mentioned:



## JONES MEMORIAL HALL.

In 1896 Dr. Hiram K. Jones, of Jacksonville, presented to the College in memory of his wife, Elizabeth Orr Jones, the Jones Memorial Hall. This hall, beautifully constructed of brick and terracotta, and fitted in accordance with the most modern methods of lighting, of heating, and of ventilating, contains the college Chapel, the Library, the offices of the President, the Dean, and the President's Secretary, a number of recitation rooms, and a ladies' waiting room.

## STURTEVANT HALL.

In 1852, immediately after all buildings of the College except Beecher Hall had been burned, the Trustees set about laying plans for a new building, that should contain a number of recitation rooms and a temporary chapel. This building was completed in 1857, when it received its name in honor of Dr. Sturtevant. Recently it has been thoroughly renovated, and now contains the Chemical and the Biological laboratories, with recitation rooms.

## BEECHER HALL.

The first building of the College, built in 1829, still stands. It is now occupied exclusively by the halls and libraries of the student literary societies, Phi Alpha, Sigma Pi, and Gamma Nu.

## CRAMPTON HALL.

This hall, a large brick building of three stories, was built in 1873 as a dormitory for students and instructors. As the building stands in the middle of the campus the students' rooms are convenient to all reci-



tation rooms. Nine rooms of this building have been set aside as temporary quarters for the Physical Laboratory.

#### THE GYMNASIUM.

This is a large brick building built in 1891, giving students every opportunity for physical culture. The lower floor contains bath-rooms, with tub and shower baths, a locker-room, and a cage for indoor base-ball practice, hurdling, pole-vaulting, etc. The second floor forms one large room, which is fitted with all kinds of physical apparatus. This room has been refitted and decorated, that it may be used by the students for social events too large for accommodation elsewhere.

#### WHIPPLE HALL.

This building is occupied by the Preparatory Department, for which it was built in 1882. Besides a large study-room, common to all students, it contains a number of recitation rooms.

#### COLLEGE HALL.

This boarding hall for young men contains large dining rooms and is equipped so as to accommodate comfortably all the students who room in Crampton Hall.

#### ACADEMY HALL.

This building, with its ample grounds, is located a few blocks east of the College and furnishes an exceptionally good home for women students. The original cost of the building was over \$75,000 and

there have recently been added improvements to the amount of \$10,000. It is lighted by gas and electricity, heated with steam, and has all the modern sanitary improvements which make for comfort and safety. Ample accommodation for the Conservatory of Music is also provided in this building. There are practice rooms with twenty-five pianos and a large recital hall with two square grand instruments for concert use. This building is under the immediate supervision of the Dean of Women, who resides there, and whose special duty is to look after the conduct and welfare of resident students.

### LIBRARIES.

The working value of the College Library has been greatly increased by its thorough reorganization and the introduction of the Dewey system of classification, with complete card catalogue. The collection of books, taken as a whole, is large and well selected, and in several departments it is very valuable and complete. The reading room adjoining the library is supplied with a large and representative assortment of papers and periodicals. The library is open from 8 a. m. to 4 p. m. for reference work or for drawing books. The Librarian will gladly assist students in the choice of books to be read in connection with their studies.

Students have access also to the Jacksonville Public Library, for which an expensive and well appointed building has recently been erected, the gift of Mr. Andrew Carnegie.

The number of volumes in the College Library as well as in the various society libraries is as follows:

College Library - - - 10,922 volumes

Sigma Pi Library - - - 2,000 volumes

Phi Alpha Library - - 2,100 volumes

As an indispensable adjunct to every department of instruction the library will have as large and as frequent accessions made to it as the resources of the College will permit.

## LABORATORIES.

### THE BIOLOGICAL LABORATORY.

The Department of Biology occupies the greater portion of the main floor of Sturtevant Hall. The rooms are all well lighted, well ventilated, and provided with gas and water. The laboratory is fitted with cases and operating tables, has an abundant supply of materials and instruments—microscopes, microtomes, paraffin baths, ovens, chemicals, a complete set of stains for use in Histology, etc. In addition it has equipment for work in Plant Physiology, with a window conservatory, collections of Zoological and of Botanical specimens, a very valuable set of microscopical slides, a complete set of Zoological charts, and a small Biological library.

### THE CHEMICAL LABORATORY.

During the year 1901-02 a thoroughly modern Chemical Laboratory was installed in roomy quarters, where the best of ventilation is readily secured. Stone-top benches, piped with water and gas, and

fitted with individual lockers, have been provided. The plumbing in all fixtures and connections is as perfect as science can make it. For experiments in which noxious gases are set free, six large hoods with forced draughts have been built. Besides supplies of chemicals and of apparatus, ample for all courses offered in the department, the laboratory has a valuable collection of technical products, generously given, in illustration of representative industries.

#### THE PHYSICAL LABORATORY.

In North Crampton Hall the Department of Physics has a large laboratory for general experiments, and several smaller rooms for special purposes. These rooms have all necessary conveniences—gas and electricity, sinks with running water, etc. The equipment of apparatus in the laboratories has been very carefully selected. Additions are made from time to time, as improvements in instruments are made, and the wants of advanced students increase.

#### PHYSICAL TRAINING.

##### YOUNG MEN.

Systematic physical training is provided for all students in the College and Academy, and is required of all below the Junior year. Before entering upon this training each student is given an examination by the Director of Physical Culture, which forms a basis for special advice and prescribed work.

From January until April exercise is required in the Gymnasium five days in the week, most of the instruction being given in classes. The work consists of light gymnastics with Indian clubs, dumb bells, wands, and pulley weights. Advanced classes are given work on the horizontal and parallel bars and on the horse.

In addition to the work in the Gymnasium, every facility is given for participation in out-door sports. The campus affords ample room for all forms of athletics, being supplied with base-ball and foot-ball fields and tennis courts. During the winter months cross-country runs are kept up.

The ordinary drill-work, as well as the training of teams for inter-collegiate contests, is under the direction of a competent instructor.

The general management of athletic affairs is vested in the Board of Control of the Athletic Association, consisting of representatives from the alumni, Faculty and students.

#### YOUNG WOMEN.

A new and well appointed gymnasium has been fitted up in Academy Hall for the use of young women.

A thoroughly competent woman instructor gives regular drill in physical culture, and by means of special work, based on individual needs, attempts to overcome any weakness that may exist. Basket-ball and tennis are practiced on the grounds which surround Academy Hall.

## LITERARY SOCIETIES.

Among the most attractive and valuable features of student life in Illinois College are the Literary Societies. These not only have the enthusiastic support of their members, but are heartily indorsed by the Faculty as useful adjuncts to the regular departments of instruction. They are conducted with ability, dignity and strict attention to the purposes of their organization, which are to furnish thorough training in debate, in expression of thought, and in parliamentary usages. Regular attendance and the prompt performance of duties are secured to a much greater degree than is usual in such organizations. The cost of membership is slight, as the dues vary from one to two dollars a year. These societies—Phi Alpha, Sigma Pi, and Gamma Nu—hold their meetings Friday evenings in their rooms in Beecher Hall, which is devoted exclusively to their uses. The society libraries contain more than four thousand volumes which are available for the use of members. All students of the College are eligible to membership.

## RELIGIOUS LIFE.

Every morning immediately after the first recitation a brief religious service is held in the college chapel, at which all students are required to be present. It is the aim of the College to maintain the high Christian standard of its missionary founders, and to develop in the students the noblest type of Christian manhood.

All students are desired and encouraged to attend divine worship on Sunday, and the churches of the



city are most cordial in their attitude toward the student body.

The Illinois College Young Men's Christian Association has long been an efficient and useful factor in student life. Its weekly exercises consist of a general meeting for prayer and conference Sunday afternoon, three classes for Bible study, and a class for study of missions. An employment bureau for the benefit of all college students is a valuable feature of the Association's work.



# THE COLLEGE

# THE COLLEGE.

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## FACULTY.

CLIFFORD WEBSTER BARNES, President,  
*Professor of Sociology.*

HIRAM KINNAIRD JONES,  
*Emeritus Professor of Philosophy.*

FREDERICK WARREN SANFORD,  
*Professor of Latin.*

JOHN GRIFFITH AMES, JR.,  
*Professor of English.*

JOHN BISHOP TINGLE,  
*Professor of Chemistry.*

JAMES BERTRAM OVERTON,  
*Professor of Biology.*

FRANK MARION MORRISON, Dean,  
*Professor of Mathematics.*

FREDERICK SMITH HAYDEN, College Chaplain,  
*Professor of Philosophy and Biblical Literature.*

CHARLES HENRY RAMMELKAMP,  
*Professor of History.*

JANE SHERZER, Dean of Women,  
*Professor of English Philology.*

MARTIN HENRY HAERTEL,  
*Assistant Professor of German.*

EDWARD EARNEST RUBY,  
*Assistant Professor of Romance Languages.*

FRED HARVEY HALL CALHOUN,  
*Assistant Professor of Physics and Geology.*

WILLIAM MATHER LEWIS,  
*Assistant Professor of English and Oratory.*

JOHN MARTIN REDPATH,  
*Instructor in Greek.*

STELLA LENORE COLE,  
*Instructor in German and French.*

FRANK PARSONS NORBURY,  
*Instructor in Psycho-Physics.*

## METHODS OF ADMISSION.

All candidates for admission to college must offer satisfactory testimonials of good moral character. Students coming from other colleges must present certificates of honorable dismissal.

## ADMISSION BY EXAMINATION.

Candidates for admission to the Freshman class will be examined on twelve units of preparatory work. A unit is the amount of work usually accomplished in a subject by one daily recitation during one school year. In every case, however, the time assigned is simply for convenience and the work outlined must be fully completed whether the time taken be more or less than that in the estimate.

Examinations for admission to all the college courses are held twice in the year; in June, the Thursday and Friday following Commencement; in September, Monday and Tuesday preceeding the opening of the first semester. If so desired, a part of the examinations may be taken in June and part in September.

The subjects which must be offered for admission and the number of units in each are:

English	-	-	-	2 units
Mathematics	-	-	-	3 units
History	-	-	-	1 unit
Physics	-	-	-	1 unit
Elective	-	-	.	5 units

The elective units may be taken from the following:

Latin	-	-	-	2, 3, or 4 units
Greek	-	-	-	1 or 2 units
German	-	-	-	1 or 2 units
French	-	-	-	1 or 2 units
History	-	-	-	1 unit
General Biology	-	-	-	1 unit
Botany	-	-	-	1 unit
Zoology	-	-	-	1 unit
Physiology	-	-	-	1 unit
Geology	-	-	-	1 unit
Physiography	-	-	-	1 unit
Chemistry	-	-	-	1 unit

Candidates who intend to take Groups I, II, and III must offer four units of Latin. Those who intend to take Group IV must offer three units of foreign language, at least two of which must be Latin. Those who intend to take Groups V and VI must offer two units of Latin, German, or French.

No candidate will be admitted to college as a regular student who is conditioned in more than two entrance units. All conditions must be removed before the end of the Sophomore year.

#### DETAILS OF SUBJECTS.

The following statements indicate the ground expected to be covered in the study of the various subjects accepted for admission.

#### ENGLISH.

*Composition and Rhetoric.* English Grammar, with special attention to the correction and analysis of sentences; Whitney, Lockwood, or an equivalent.

In Rhetoric and Composition, any high school Rhetoric such as Hill, Kellogg, or Williams will be sufficient. Each candidate will be expected to write a short theme on some subject chosen from the books mentioned below. The treatment of the topic is designed to test the candidate's ability to express himself simply, clearly, and accurately. No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, or division into paragraphs.

*Literature.* (a) A careful knowledge of the following works, or their equivalent. The examination will be upon subject matter, form and structure. Shakespeare's *Macbeth*; Milton's *Comus*, *Lycidas*, *L'Allegro*, and *Il Penseroso*; Burke's speech on Conciliation with America; Macaulay's *Essays on Milton and Addison*.

(b) A general knowledge of the subject matter of the Sir Roger De Coverly Papers in the *Spectator*; Pope's *Iliad*, Books I, VI, XXII, and XXIV; Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *Last of the Mohicans*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

Attention is called to the fact that the right is reserved to regard all examination papers, upon whatever subject, as part of the English examination.

#### MATHEMATICS.

*Algebra.* Fundamental operations, factoring, highest common factor, lowest common multiple, fractions, simple equations of the first degree, inequalities, indeterminate equations, theory of expon-

ents, square roots, radicals including imaginaries, quadratic equations, special forms of higher equations, ratio and proportion, arithmetical and geometrical series and binomial theorem for any rational exponent.

Accuracy, rapidity, and freedom from working by rule are desired.

*Geometry.* Plane, solid and spherical geometry. A thorough understanding of the fundamental theorems, ability to solve and prove original exercises and theorems, and accuracy and acuteness in thinking rather than mere geometrical facts are desired.

#### FOREIGN LANGUAGES.

*Latin.* (a) A standard beginner's book in Latin, and four books of Caesar; Latin composition.

(b) Six orations of Cicero; Latin composition.

(c) Six books of Vergil's *Æneid*.

The work indicated under (a) may be offered as two units, (a) and either (b) or (c) as three units, and (a), (b), and (c) as four units.

*Greek.* (a) White's First Greek Book, or equivalent.

(b) Xenophon's *Anabasis*, Books I, II, and III; Greek prose composition.

*German.* (a) Careful drill in pronunciation. Rudiments of grammar including declension of the articles, adjectives, pronouns, and nouns, the inflection of weak verbs and of the more common strong and irregular verbs. Abundant exercises designed to fix in mind the grammatical forms and to cultivate



readiness in expression. Between one and two hundred pages of graduated text, chiefly prose.

(b) Thorough drill in composition. Free reproduction. Between three and four hundred pages of moderately difficult prose and poetry.

*French.* (a) Essentials of French Grammar as far as contained in Fraser and Squair's French Grammar, or its equivalent.

(b) Careful reading in French authors of not less than two hundred duodecimo pages. Special emphasis will be placed on correct pronunciation and the mastery of irregular verbs.

#### HISTORY.

*Ancient History.* Short introductory study of the Oriental nations; Greek history to the death of Alexander; Roman history and Early Mediaeval history to the death of Charles the Great. Botsford's History of Greece and Allen's Short History of the Roman People, or equivalents, with supplementary reading.

*English and American History.* English history with due reference to social and political development and American history with the elements of Civil Government. Coman and Kendall's History of England and McLaughlin's History of the American Nation, or equivalents, with supplementary reading.

*Mediæval and Modern History.* European history from the death of Charles the Great to the Franco-German war of 1870. Myer's Mediæval and Modern History, or equivalents, with supplementary reading.

Any of these three divisions may be offered as the unit in History required of all candidates for admission.

#### PHYSICS.

The elements of Physics as presented in such text books as Gage's, or Carhart and Chute's Elements of Physics. The candidate must have had laboratory practice equivalent to that described in the laboratory text-book of Chute.

#### GENERAL BIOLOGY.

One year's study of typical animals and plants by the laboratory method, covering the facts of morphology and physiology. This requirement may be met by a course such as is laid down in Jordan and Kellogg's Animal Life and Coulter's Plant Relations.

*Botany.* A year's work may be offered in Botany. The work should cover the ground of Coulter's Plant Structures and Plant Relations, or equivalent texts.

*Zoology.* A year's work in Zoology may be offered covering the ground of Pratt's Invertebrate Zoology, or equivalent text, and Jordan's Animal Life. Accurate notes and drawings should be made by the student

*Physiology.* A year's work based on the standard texts as Overton's, Martin's, or equivalent. Experiments should be performed and a laboratory notebook kept, as a feature of the work.

#### GEOLOGY.

The student should have a general knowledge of

the structure of the earth, the agencies which modify the surface, and the development of life through the geologic ages. He should be able to distinguish between the different classes of rocks, and should have some knowledge of field methods. A year's work based upon such a text as Tarr's Geology is sufficient to meet the requirements.

#### CHEMISTRY.

Acquaintance by laboratory work with the properties of substances common to Chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry.

The laboratory note-book must be presented at the time of examination.

#### PHYSIOGRAPHY.

The student should be familiar with the general relations of the earth to the other members of the solar system, with the physiographic processes that take place in the atmosphere and in the ocean, and with the history of the land forms. A year's work based upon such texts as Davis's or Tarr's will meet the requirements.

#### ADMISSION BY CERTIFICATE.

Under certain conditions specified below certificates of preparatory schools may be accepted in place of examination for admission. The privilege of send-

ing students by certificates may be granted to a school which requests it, provided the Faculty has such an acquaintance with the work of the school as will warrant granting the request.

A certificate must be made out on a blank furnished by the College in accordance with instructions contained therein. It must contain an explicit statement of the work done by the candidate and the time devoted to it. If the work covered by the certificate is materially less than the amount required for admission, or if the time devoted to a given subject is inadequate, the certificate will not be accepted for the subject in which the deficiency occurs, but it will remain valid for the other subjects.

#### ADVANCED STANDING.

Students who come from other colleges of recognized rank may receive such advanced standing as their certificates from these institutions may warrant. Such certificates must contain definite statements of the amount and character of work done, preparatory and collegiate. If these credentials are satisfactory the student will be given a corresponding amount of credit on the college records.

#### SPECIAL STUDENTS.

Persons will be admitted without examination, as special students, to pursue courses for which, in the judgment of the instructors, they may be qualified.

#### MATRICULATION.

All candidates for admission must present them-

selves before the Dean not later than 10 a. m. of the first Tuesday of the semester. Those presenting satisfactory certificates from secondary schools will be granted certificates of matriculation without examination. Those without satisfactory certificates will have assigned them the subjects in which they are to be examined, and the place and time of such examination.

#### REGISTRATION.

Each student who has properly matriculated must report in person at the Dean's office the first Tuesday of the first semester and register:

a. Full name, home address, and college address.

b. Choice of studies for the semester.

The choice of studies for the second semester must be reported in writing to the Dean three weeks before the beginning of the second semester.

Any student who does not register in accordance with the above rules will not be allowed to register without permission of the Dean and payment of a special fee of one dollar.

#### TUITION AND FEES.

All tuition and fees are payable to the Treasurer at the time of registration. No student will be enrolled as a member of any class without presenting a receipt from the Treasurer. In exceptional cases, by depositing with the Treasurer \$5.00 in addition to the fees, a student will be given a receipt in part, which will permit enrollment, but this deposit will be for-

feited unless the remainder of the tuition is paid within thirty days.

## ATTENDANCE.

Each student is required to be regular in attendance upon chapel services and class exercises, but to allow for such absences as may seem necessary, the following rules have been adopted:

1. A student is allowed each semester the following absences: from chapel services, 10 absences; from a five-hour course, 5; from a four-hour course, 4; from a three-hour course, 3; from a two-hour course, 2; from a one-hour course, 2.

2. Any student having for any cause more than the allowed number of absences in any course will be considered conditioned in the course. In order to remove the condition, the student must do such extra work as the instructor may assign.

3. Absences from chapel on account of sickness will be excused at the discretion of the Dean, if the student so requests immediately upon return to college. For any unexcused absence beyond the limit the student will be dismissed from college.

## EXAMINATIONS AND GRADES.

At the end of each semester all students are examined in the courses pursued by them during the semester. A student is not admitted to examination in any course in which his work has been unsatisfactory to the instructor. Absence from an examination, except by reason of absolute necessity, will be re-



garded as failure in the course. The results of the examinations are combined with those of the recitations to decide the standing of the student.

The standing of a student is indicated by letters as follows:

A—Exceptionally good.

B—Passed with credit.

C—Passed.

D—Conditioned.

F—Failed.

Every condition must be removed during the semester following such condition, or it will be marked a failure. In case of failure in a required course, the course must be taken again the first succeeding semester that it may be offered.

#### COLLEGE STANDING.

College students who have completed less than thirty hours will be ranked as Freshmen; those who have completed thirty or more, but less than sixty, as Sophomores; those who have completed sixty hours, but less than ninety, as Juniors, and those who have completed ninety or more hours, as Seniors.

#### RECORDS AND REPORTS.

A careful record is kept of the attendance of each student in the College and of proficiency in the several studies pursued. At the end of each semester a report is sent to the parent or guardian of each student, indicating standing in each study for that semester.



## CLASS OFFICERS.

In order that the closest and most friendly relations may exist between the students and the Faculty, each class upon entering college has an instructor assigned to it as class officer, to whom its members can look for advice and counsel at all times during their college course, and whose judgment in many matters can be of great value to them.

## GRADUATION.

In the award of all degrees and honors, attention is paid to the conduct of the student during the college course, and any student who has incurred serious discipline may be debarred from the rank to which otherwise his scholarship would have entitled him.

## BACHELOR'S DEGREES.

Students who complete a required course of study of 128 hours are ordinarily recommended by the Faculty for the degree of Bachelor of Arts, Bachelor of Philosophy, or Bachelor of Science, according to the studies pursued. If the recommendation is approved by the Trustees, the degree is conferred at Commencement, and diplomas, signed by the President and by the Secretary of the Board of Trustees, are issued. The fee for this degree is ten dollars, to be paid to the College Treasurer not later than one week before Commencement.

## MASTER'S DEGREE.

The degree of Master of Arts may be conferred

upon a Bachelor of Arts or a Bachelor of Philosophy of this or of any other institution of approved standing, who shall have devoted one year exclusively to graduate study in the College under direction of the Faculty, and who shall have shown satisfactory proficiency in his work through examinations and by preparing a thesis upon an approved subject. The fee for this degree is ten dollars, to be paid to the college Treasurer before the candidate enters the final examinations.

Under the same conditions the degree of Master of Science may be conferred upon a Bachelor of Science.

#### HONORS.

The final rank of members of a graduating class is computed by combining the averages for the several years of the college course; the average for the Freshman year, however, is omitted in those cases in which it would lower the standing of the student. From these final marks the Faculty determines what portion of the class shall be printed as the Honor List—the names of the members of each group being printed in alphabetical order. Special Honors in particular departments are also awarded.

The first and second general groups thus determined are the Honor groups of the graduating class, and are designated *magna cum laude*, or *cum laude*, respectively.

The higher distinction of *insigni cum laude* and the highest, of *summa cum laude*, are reserved for very unusual excellence.

## COMMENCEMENT SPEAKERS.

The Senior whose individual rank is highest is ordinarily awarded the *Valedictory* by vote of the Faculty. In like manner the Senior whose individual rank is the next highest receives the *Salutatory*. Three others who ranked highest in the Senior Oratorical contest are chosen to deliver English Orations, usually in the order of their scholarship.

## PRIZES.

All prizes are offered each year. The Faculty is authorized, however, to withhold a prize in any instance in which reasonable competition is not manifested by members of the class entitled to compete.

No student will be allowed to compete for a prize in a course which he does not pursue with his class at the regular time.

It is expected that all prizes will be expended for books or for some other object approved by the Faculty.

## THE REID PRIZES.

Four prizes, in memory of Arthur Somerville Reid, are given, as follows:

(a) A prize of \$50, competition for which is open to the members of the Senior class, is awarded for the best original oration on a given subject judged from the standpoint of thought and composition.

(b) A prize of \$30, competition for which is open to the five Seniors attaining the highest rank in contest (a), is awarded to the competitor receiving the highest average rank in delivery.\*

\*The three Seniors receiving the highest average mark in this contest are chosen as Commencement Speakers.

(*c*) A prize of \$20, competition for which is open to members of the Junior class, is awarded for the best thesis of not less than 4,000 words on some subject chosen by the Department of History.

(*d*) A prize of \$20, competition for which is open to members of the Junior class, is awarded for the best thesis of not less than 4,000 words on some subject to be chosen by the Department of English.

#### THE SMITH PRIZES.

A fund of \$1,000 has been given by Mr. Thomas Smith of Hartford, Conn., the income from which is applied as follows:

(*a*) The income from the sum of \$250 is awarded to a member of the Sophomore class for the best declamation in English prose.

(*b*) The income from the sum of \$250 is awarded to a member of the Sophomore class receiving the highest grade for the year's work in English composition.

(*c*) The income from the sum of \$250 is awarded to a member of the Sophomore class in Mathematics for the best discussion of some subject related to the work of the year.

(*d*) The income from the sum of \$250 is awarded to the member of the Freshman class giving the best discussion of some assigned problem or topic in Mathematics. The competition is open to the four students whose class rank for the year in Mathematics is highest.

## THE IRELAND PRIZE.

The income from the sum of \$500, given by Rev. W. E. Catlin, of the class of 1845, in honor of his classmate, Rev. William Ireland, is awarded to a member of the Senior class for the best paper on some assigned subject in the Department of Philosophy.

## THE BRYAN PRIZE.

The income from the sum of \$300, given by the Hon. William Jennings Bryan, of the class of 1881, is awarded to the member of the Junior class in Political Science who presents the best thesis on an assigned subject bearing on the work of the course.

## THE HALL PRIZE.

The income from the sum of \$250, given by Mr. H. H. Hall, of Jacksonville, is awarded for the best oration delivered by a member of the Junior class.

## PRIZES AWARDED 1901-02.

## The Reid Prizes—

a.	Harlan E. Read	-	-	-	\$50.00
b.	Harlan E. Read	-	-	-	30.00
c.	E. Bentley Hamilton	-	-	-	20.00
d.	Not awarded.				

## The Smith Prizes—

a.	Not awarded.				
b.	Arthur F. Ewert	-	-	-	\$12.50
c.	Bradford Sturtevant	-	-	-	12.50
d.	Walter Bellatti	-	-	-	12.50

## The Ireland Prize—

	Wilber Walter Hatfield	-	-		\$25.00
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## The Bryan Prize—

	Duval O'Neal	-	-	-	\$25.00
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## The Hall Prize—

Lawrence E. Stone       -       -       -       \$12.50

## SCHOLARSHIPS.

The income from Scholarships is given to students as a reward of merit and as a means of assistance. Application for scholarships must be made not later than May 31, and must contain an honest statement of the student's financial condition, together with testimonials of good moral character, and of intellectual ability.

Any student who is conditioned in any subject will forfeit his scholarship for the next semester.

Scholarships are assigned for one year only; students desiring to have their scholarships continued must make a new application in the regular form.

The following scholarships have been established by friends of the College:

- 1—The Henry Haskins Ousley Memorial Scholarship, established by Mrs. Ella L. Brainard, of Lincoln, Ill., in memory of her father       -       -       -       -       -       -       \$1,000
- 2—The Walter Lee Sanders Memorial Scholarship, established by Hon. George A. Sanders, of Springfield, Ill., in memory of his son       -       -       -       -       -       -       \$1,000
- 3—The Frank L. True Memorial Scholarship, established by Lyman W. True, of Jacksonville, in memory of his son       -       -       -       \$500
- 4—The Hubbard Scholarship, established by friends of the College       -       -       -       -       \$1,000



- 5—The Barstow Scholarship, established by  
Mr. A. C. Barstow, of Providence, R. I. \$1,000
- 6—The Walcott Scholarship, established by  
Rev. Samuel Walcott, of Providence, R. I. \$1,000
- 7—The Holmes Scholarship, established by  
Mr. Charles Holmes, St. Louis, Mo. - \$1,000
- 8-9—The Ellis Scholarships, established by  
Rev. John M. Ellis, one of the founders of  
the College - - - - - \$2,000
- 10-11—The Abel Scholarships, established by  
Mr. Abel, of Quincy, Ill. - - - \$2,000
- 12—The Y. P. S. C. E. Scholarship, estab-  
lished by the Congregational Churches of  
Quincy, Jacksonville, and Waverly, the  
Christian Church, and the State Street Pres-  
byterian Church of Jacksonville, Ill. - \$ 500
- 13—Ministerial Scholarships; sons and daugh-  
ters of clergymen are granted half-scholar-  
ships, amounting to \$25 per annum.
- 14—The Harvard University Scholarship. At  
an annual meeting, December 14, 1897, the  
Harvard Club of Chicago established an  
annual scholarship at Harvard University.  
This scholarship is open to the graduates  
of the universities and colleges of Illinois  
who wish to follow a graduate course of  
study at Harvard University. Applica-  
tion must be made before May 1st in each  
year; senior students about to finish the



undergraduate course are eligible as candidates. Communications from candidates for the year 1903-04 should be addressed to Samuel Adams, 516 Monadnock Block, Chicago. This scholarship yields \$300 per annum.

## EXPENSES.

### ROOMS.

Steam heated rooms may be had in Crampton Hall at the rate of \$12.50 per semester. A deposit of \$5.00 must be made when the room is reserved and the balance paid within thirty days from date of registration.

The accommodations are superior to those of ordinary college dormitories. Each suite of rooms, consisting of a study room fifteen feet square and a bedroom eight by twelve, is occupied by two students, and is cared for every day by a janitor. The study room is furnished with a large study table, and the bedroom with a double bed and a woven wire mattress as permanent articles of furniture. Other articles of furniture, such as chairs, washstands and bedding, are furnished by the students.

Choice of rooms is given by seniority to the college classes. Early application should be made by those wishing to secure rooms in Crampton Hall, as the building is usually entirely occupied at the opening of the college year.

Each student occupying rooms in Crampton Hall

is required to deposit with the Treasurer \$10.00 at the beginning of each semester, to be applied by him to the payment of bills for gas and possible damage during the semester. Any money not so applied will be returned to the student at the close of the semester, or at such time as the student may have leave of absence for the remainder of the semester.

#### BOARD.

Students maintain a boarding club in a commodious building on the campus, well supplied by the College with all the necessary table and other furniture, and obtain good board at its actual cost. The price of board is estimated at \$2.50 per week. The cost of board in private families, with furnished room, is from \$3.50 to \$4.50 per week.

#### LABORATORY FEES.

Fees of \$5.00 per semester are charged students in Biology and Chemistry, and of \$2.50 in Physics, to defray the cost of material, gas, and reagents.

In addition to the laboratory fee in Chemistry students must deposit \$5.00 with the Treasurer for possible damage and breakage to apparatus. The balance due will be repaid at the end of the semester.

#### LIBRARY AND GYMNASIUM FEE.

A Library and Gymnasium fee of \$2.50 each semester is charged each student.

#### SCHEDULE OF EXPENSES.

The following is a schedule of expenses for each semester:

Required of all:

Tuition.....	\$25.00
Library and Gymnasium fee.....	2.50

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Total .....\$27.50

Students in Biology: laboratory fee.....	\$ 5.00
Students in Physics: laboratory fee.....	2.50
Students in Chemistry: laboratory fee...	5.00
Room rent in Crampton Hall.....	12.50
Board at the College Club.....	45.00

#### ESTIMATE BY THE YEAR.

	Lowest	Moderate	Liberal
Tuition.....	\$50.00	\$50.00	\$ 50.00
Library and Gymnasium fee .....	5.00	5.00	5.00
Room rent.....	25.00	25.00	25.00
Board.....	75.00	90.00	108.00
Books, society fees, etc....	10.00	15.00	20.00
Light.....	5.00	7.00	10.00
Laboratory fees.....		5.00	10.00
	<hr/>	<hr/>	<hr/>
	\$170.00	\$197.00	\$228.00

#### TUITION FOR SPECIAL COURSES.

Tuition charges per semester for special courses are as follows: for a two-hour course, \$8.00; three-hour course, \$10; four or five-hour course, \$12.50.

#### SELECTION OF STUDIES.

The group system is designed to assist the student in a wise choice of studies, and protect him from the possible errors arising from an unrestricted elective system. To this end the courses are divided into six groups, each of which gives prominence to

a special line of work, and prescribes the course necessary to its proper prosecution. Outside of these prescribed courses, there is, in the Junior and Senior years especially, a wide range of electives, affording the opportunity for further specialization or for a choice of more general subjects.

The choice of a group and of electives should be made with the utmost care, and upon consultation with members of the Faculty. Changing from one group to another will not be permitted.

Students electing a course that has a course logically following it in the second semester will be required to take the course during the second semester.

All work in the Freshman year is required. Students who offer German 1 and 2 at entrance take 3 and 4 in the Freshman year.

In the Sophomore and Junior years a student must choose from the electives for which he is prepared a sufficient number of hours to make a total, with required work, of 16 hours per week each semester.

In the Senior year all work is elective. A total of 16 hours per week must be chosen each semester.

Permission to take other than 16 hours a week in any year must be obtained from the Dean, subject to the approval of the Faculty.

ILLINOIS COLLEGE  
FRESHMAN YEAR.

FIRST SEMESTER.

PRESCRIBED					
GROUP I. A. B.		GROUP II. Ph. B.		GROUP III. Ph. B.	
<i>Latin</i> , I	5	<i>Latin</i> , I	5	<i>Latin</i> , I	5
<i>Greek</i> , I	5	<i>German</i> , I or		<i>German</i> , I or	
<i>Math.</i> , I	4	<i>French</i> , I	5	<i>French</i> , I	5
<i>English</i> , I	2	<i>Math.</i> , I	4	<i>Math.</i> , I	4
		<i>English</i> , I	2	<i>English</i> , I	2
	—		—		—
	16		16		16
GROUP IV. Ph. B.		GROUP V. B. S.		GROUP VI. B. S.	
<i>French</i> , I	5	<i>Biology</i> , I	5	<i>Physics</i> , I	5
<i>German</i> , I	5	<i>German</i> , I or		<i>German</i> , I or	
<i>Math.</i> , I	4	<i>French</i> , I	5	<i>French</i> , I	5
<i>English</i> , I	2	<i>Math.</i> , I	4	<i>Math.</i> , I	4
		<i>English</i> , I	2	<i>English</i> , I	2
	—		—		—
	16		16		16

ELECTIVE.

*Bible Study*, 1

SECOND SEMESTER.

PRESCRIBED.					
GROUP I. A. B.		GROUP II. Ph. B.		GROUP III. Ph. B.	
<i>Latin</i> , 2	5	<i>Latin</i> , 2	5	<i>Latin</i> , 2	5
<i>Greek</i> , 2	5	<i>German</i> , 2 or		<i>German</i> , 2 or	
<i>Math.</i> , 2	4	<i>French</i> , 2	5	<i>French</i> , 2	5
<i>English</i> , 2	2	<i>Math.</i> , 2	4	<i>Math.</i> , 2	4
		<i>English</i> , 2	2	<i>English</i> , 2	2
	—		—		—
	16		16		16
GROUP IV. Ph. B.		GROUP V. B. S.		GROUP VI. B. S.	
<i>French</i> , 2	5	<i>Biology</i> , 2	5	<i>Physics</i> , 2	5
<i>German</i> , 2	5	<i>German</i> , 2 or		<i>German</i> , 2 or	
<i>Math.</i> , 2	4	<i>French</i> , 2	5	<i>French</i> , 2	5
<i>English</i> , 2	2	<i>Math.</i> , 2	4	<i>Math.</i> , 2	4
		<i>English</i> , 2	2	<i>English</i> , 2	2
	—		—		—
	16		16		16

ELECTIVE.

*Bible Study*, 1

## SOPHOMORE YEAR.

## FIRST SEMESTER.

## PRESCRIBED.

GROUP I. A. B.	GROUP II. Ph.B.	GROUP III. Ph.B.
<i>Greek</i> , 3            5	<i>Latin</i> , 3            3	<i>Latin</i> , 3            3
<i>Oratory</i> , 1           1	<i>Math.</i> , 3           5	<i>History</i> , 1           3
<i>English</i> , 3           3	<i>Oratory</i> , 1           1	<i>Oratory</i> , 1           1
—	<i>English</i> , 3           3	<i>English</i> , 3           3
9	12	10
GROUP IV. Ph.B.	GROUP V. B. S.	GROUP VI. B. S.
<i>German</i> , 3           4	<i>Chemistry</i> , 1       5	<i>Physics</i> , 3           3
<i>or French</i> , 3       3		
<i>History</i> , 1           3	<i>Biology</i> , 3           5	<i>Math.</i> , 3            5
<i>Oratory</i> , 1           1	<i>Oratory</i> , 1           1	<i>Oratory</i> , 1           1
<i>English</i> , 3           3	<i>English</i> , 3           3	<i>English</i> , 3           3
—	—	—
10 or 11	14	12

## ELECTIVES\*

<i>Mathematics</i> ,	<i>Biology</i> ,	1 (5)
3 (5); 7 (3); 9 (4)	<i>History</i> ,	1 (3)
<i>Latin</i> ,            11 (2); 3 (3)	<i>Chemistry</i> ,	1 (5)
<i>German</i> , 1 (5); 3 (4); 5 (3)	<i>English</i> ,	5 (2)
<i>French</i> ,           1 (5); 3 (3)	<i>Physics</i> ,	1 (5); 3 (3)
<i>Geology</i> ,           1 (3)		

\*The student must elect from this or the Freshman list enough hours of work to make a total of sixteen hours per week during the semester.

## SOPHOMORE YEAR.

## SECOND SEMESTER.

## PRESCRIBED.

GROUP I. A. B.	GROUP II. Ph. B.	GROUP III. Ph. B.
<i>Greek</i> , 4                      5	<i>Latin</i> , 4                      3	<i>Latin</i> , 4                      3
<i>Oratory</i> , 2                    1	<i>Math.</i> , 4                    5	<i>History</i> , 2                  3
<i>English</i> , 4                   3	<i>Oratory</i> , 2                  1	<i>Oratory</i> , 2                  1
—	<i>English</i> , 4                  3	<i>English</i> , 4                  3
9	12	10
GROUP IV. Ph. B.	GROUP V. B. S.	GROUP VI. B. S.
<i>German</i> , 4                   4	<i>Chemistry</i> , 2              5	<i>Physics</i> , 4                  3
<i>or French</i> , 4               3		
<i>History</i> , 2                   3	<i>Biology</i> , 4                5	<i>Math.</i> , 4                    5
<i>Oratory</i> , 2                   1	<i>Oratory</i> , 2                  1	<i>Oratory</i> , 2                  1
<i>English</i> , 4                   3	<i>English</i> , 4                  3	<i>English</i> , 4                  3
—	—	—
10 or 11	14	12

## ELECTIVES\*

<i>Mathematics</i> ,              4 (5); 8 (3)	<i>History</i> ,                              2 (3)
<i>Latin</i> ,                      12 (2); 4 (3)	<i>German</i> ,    2 (5); 4 (4); 6 (3)
<i>French</i> ,                    2 (5); 4 (3)	<i>English</i> ,                              6 (2)
<i>Biology</i> ,                    2 (5)	<i>Chemistry</i> ,                          2 (5)
<i>Geology</i> ,                    2 (3)	<i>Physics</i> ,                    2 (5) 4 (3)

\*See note under First Semester.



## JUNIOR YEAR.

## FIRST SEMESTER.

PRESCRIBED					
GROUP I. A. B.		GROUP II. Ph.B.		GROUP III. Ph.B.	
<i>Greek</i> , 5	5	<i>Math. and</i>		<i>Political Sc.</i> , I	3
		<i>Physics</i> , I	8	<i>History</i> , 3	3
<i>English</i> , II	5	<i>Latin</i> , 5	3	<i>History</i> , 7	3
<i>or History</i> , 7	3		—		—
	8 or 10		11		9
GROUP IV. Ph.B.		GROUP V. B. S.		GROUP VI. B. S.	
<i>History</i> , 3	3	<i>Chemistry</i> , 5	5	<i>Math.</i> , II	4
<i>English</i> , 9	3			<i>Science or</i>	
<i>English</i> , II	5	<i>Science or</i>		<i>Math.</i> ,	7
	—	<i>Math.</i> ,	6		—
	11		11		11

## ELECTIVES\*

<i>Latin</i> ,	3 (3); II (2)	<i>History</i> , 3 (3); 5 (3); 7 (3)	
<i>Greek</i> ,	I (5)	<i>Philosophy</i> ,	
<i>English</i> ,			I (3); 3 (2)
9 (3); II(5); I3(3); I5(3); I9(2)		<i>Oratory</i> ,	3 (2)
<i>Political Science</i> ,	I (3)	<i>French</i> ,	I (5)
<i>Mathematics</i> ,	5 (4); 9 (4)	<i>Geology</i> ,	I (3)
<i>Biology</i> ,	3 (5)		
<i>Physics</i> ,	3 (3)		

\*The student must elect from this or the Freshman and Sophomore lists enough hours of work to make a total of sixteen hours per week during the semester.

## JUNIOR YEAR.

## SECOND SEMESTER.

PRESCRIBED.					
GROUP I. A. B.		GROUP II. Ph.B.		GROUP III. Ph. B.	
<i>Greek</i> , 6	5	<i>Math. and Physics</i> , 2	8	<i>Political Sc.</i> , 2	3
<i>English</i> , 12	5			<i>History</i> , 4	3
<i>or History</i> , 8	3	<i>Latin</i> , 6	3	<i>History</i> , 8	3
	—		—		—
	8 or 10		11		9
GROUP IV. Ph.B.		GROUP V. B. S		GROUP VI. B. S.	
<i>History</i> , 4	3	<i>Chemistry</i> , 6	5	<i>Math.</i> , 12	4
<i>English</i> , 10	3	<i>Science or Math.</i> ,	6	<i>Science or Math.</i> ,	7
<i>English</i> , 12	5		—		—
	11		11		11

## ELECTIVES\*

<i>Latin</i> ,	4 (3); 12 (2)	<i>History</i> ,	4 (3); 6 (3); 8 (3)
<i>Greek</i> .	2 (5)	<i>Philosophy</i> ,	2 (1); 4 (2); 10 (2); 9 (2)
<i>English</i> ,	10(3);12(5);14(3);16(3);20(2)	<i>Oratory</i> ,	4 (2)
<i>Political Science</i> ,	2 (3)	<i>French</i> ,	2 (5)
<i>Mathematics</i> ,	6 (4); 10 (4)	<i>Geology</i> ,	2 (3)
<i>Biology</i> ,	4 (5)		
<i>Physics</i> ,	4 (3)		

\*See note under First Semester.

## SENIOR YEAR.

## FIRST SEMESTER.

## ELECTIVES\*

<i>Latin,</i>	5 (3); 11 (2)	<i>Philosophy,</i>	1 (3); 3 (2); 5 (2)
<i>Greek,</i>	3 (5); 5 (5)	<i>Political Science,</i>	3 (3)
<i>English,</i>	17 (2)	<i>History,</i>	3 (3); 5 (3); 7 (3)
<i>Chemistry,</i>	5 (5); 9 (5)	<i>Sociology,</i>	1 (2)
<i>Physics,</i>	3 (3)	<i>Geology,</i>	1 (3)

\*The student must elect from this or the other lists of Electives enough hours of work to make a total of sixteen hours per week during the semester.

## SECOND SEMESTER.

## ELECTIVES\*

<i>Latin,</i>	6 (3); 12 (2)	<i>Philosophy</i>	2 (1); 9 (2); 10 (2); 6 (2); 4 (2)
<i>Greek,</i>	4 (5); 6 (5)	<i>History,</i>	4 (3); 6 (3); 8 (3)
<i>English,</i>	18 (2)	<i>Political Science,</i>	4 (3)
<i>Chemistry,</i>	6 (5); 10 (5)	<i>Sociology,</i>	2 (2)
<i>Physics,</i>	4 (3)	<i>Geology,</i>	2 (3)

\*See note under First Semester.

# HOURS OF RECITATION.

	8:15	9:30	10:30	11:30	1:30	2:30	3:30
Bible.....							
Biology.....			1, 2-Daily.	1, 2-M W F	T.....		
Chemistry.....			3, 5-M W F	3, 5-Daily.			
English.....	11, 12-M W F		9, 10-M W F	1, 2-T Th.	5, 6-Daily	1, 2-Daily.	9, 10-Da.
	5, 6-T Th.		19, 20-T Th.			16-M W F.	
	13, 14-M W F	15, 8-M W F		3, 4-M W F			
French.....		17, 18-T Th.					
Geology.....			3, 4-M W F		1, 2-Daily.		
German.....	5, 6-M W F	1, 2-M W F					
Greek.....	3, 4-Daily.	1, 2-Daily.				3, 4-M W Th F	
History.....	1, 2-M W F	3, 4-M W F	7, 8-M W F	5, 6-Daily.			
Latin.....		3, 4-M W F	1, 2-Daily.				
Math.....	1, 2-T W Th F	11, 12-T Th.			12-T Th.		
Oratory.....		3, 4-T Th.	3, 4-Daily.			1, 2-T.	
Pol. Science.....						7, 8-Th.	5, 6-MWF
Philosophy.....	1, 2, 9, 10-M W F	5, 6-T Th.		3, 4-T Th F		1, 2-M T W	
	3, 4-T Th.						
Physics.....		1, 2-Daily.					
Sociology.....		1, 2-T Th.	1, 2-M W F			3, 4-M W F	

Daily Chapel Service, 9:15 to 9:30 a. m.

## COURSES OF INSTRUCTION.

## BIBLICAL LITERATURE.

FREDERICK SMITH HAYDEN, Professor.

Systematic courses in the study of the English Bible are offered each year; these courses are open to all students of the College. The purpose is to give the student a general historical knowledge of the Bible, with special emphasis on the life and teachings of Christ.

1—*Beginnings of Hebrew History.* 1 hour

Entire year.

Study of the ancient civilizations which form the background of Jewish life; interpretation of the testimony furnished by the monuments and other records, in their relation to the Hebrew people.

2—*Hebrew History and Literature.* 1 hour

Entire year.

Political, social, and religious life of the people; their settlement in Canaan; division of the kingdom; connection with the great political movements between 937 and 586 B. C.; work of the Hebrew prophets.

3—*New Testament History and Literature.* 1 hour

Entire year.

Study of Roman and Jewish life about the time of Christ; laws and customs which form a background to the New Testament teachings; literature bearing on Jewish and Christian life.

4—*Life of Christ.* 1 hour

Entire year.

Study of Christ's life as revealed in the four gospels; Christ's teachings; the organization and development of the Christian church.

## BIOLOGY.

JAMES BERTRAM OVERTON, Professor.

The courses in Biology are designed to give a general knowledge of the fundamental facts and principles of organic life, and to make clear the subject-matter of these sciences as far as possible. They are intended to meet the needs of a general education, and also to serve as a preparation for those students who are shaping their studies with a view to future work in medicine.

1—*General Morphology. (Botany).* 5 hours

First Semester.

This course is intended to illustrate the general principles of Biology as well as to serve as an introduction to the study of Botany. The work deals with general morphology and outlines of classification. Selected types of Thallophytes, Bryophytes, Pteridophytes, and Spermatophytes are chosen, special emphasis being placed on evolution of sex, lines of development, alternation of generations, etc.

Two lectures, or recitations, with six hours laboratory work per week.

Text: Coulter, Plant Structures.

2—*General Morphology. (Zoology).* 5 hours

Second Semester.

This course aims to study representative types of animals, emphasis being placed on invertebrate morphology, anatomy, classification, distribution, and habits. The course endeavors to meet the needs of a general knowledge of Zoology and to furnish the basis of more advanced work. The course covers about the same field in the animal kingdom as is covered in the plant kingdom by Course 1. Types of Protozoa, Coelenterata, Platyhelminthes, Nematoda, Echinodermata, Mollusca, Annelida, and Arthropoda are studied.

Two lectures, or recitations, and six hours laboratory work per week.

Text: Parker and Haswell, Manual of Zoology.

### 3—*Plant Physiology.*

5 hours

First Semester.

This course presents the more general physical and chemical principles of plant functions, such as absorption, transpiration, photosynthesis, respiration, and growth. An elementary knowledge at least of Physics and Chemistry is a necessary antecedent to this course. The laboratory work is largely experimental.

Two lectures, or recitations, and six hours laboratory work per week.

Text: MacDougal, Elementary Plant Physiology.

### 4—*General Ecology.*

5 hours

Second Semester.

This course treats of plants in relation to their environment. A study of plant organs is made in relation to their nutritive, reproductive, and protective functions. As much time is given also to the microscopic study of the tissues adapted for absorption, conduction, synthesis, transpiration, etc., as the course permits. A study of the various plant societies, and the factors which influence their distribution, migration, etc., is made in the field.

Two lectures, or recitations, and six hours laboratory work per week.

Text: Coulter, Plant Relations.

### 5—*Vertebrate Anatomy.*

5 hours

First Semester.

This course is a continuation of Course 2. It includes a detailed study through dissection of an Ascidian, Balanoglossus, Amphioxus, Frog, and other types if time permits. The vertebrate characters, embryology, and histology will be considered.



Two lectures, or recitations, with six hours laboratory work per week.

Prerequisite: Course 2.

Texts: Parker and Haswell, *Manual of Zoology*; Marshall, *The Frog*.

### 6—*General Histology*.

5 hours

Second Semester.

This course is intended to teach some of the methods of modern technique, as well as to aid the student in a more detailed study of animal structures. The course develops the more general methods and principles of preparing materials for microscopical examination, and includes killing, fixing, imbedding, sectioning, staining, mounting, and drawing. The course begins with a study of the cell, its variations in form, arrangement and structure. A study of the fundamental tissues is then taken up, and as much time as possible devoted to the changes in the elemental tissues.

Two lectures, or recitations, and six hours laboratory work per week.

Prerequisites: Courses 2 and 5.

## CHEMISTRY.

JOHN BISHOP TINGLE, Professor.

The courses of instruction are based entirely on the individual work of the student in the laboratory, and are intended to develop his reasoning and observational powers, in order to enable him to regard his surroundings in a rational and scientific manner. Thus far the work is simply for mental discipline. The second aim is to impart to the student a knowledge of the fundamental principles of the science, and to give him, as far as possible, familiarity with the properties of the more important substances and facility in their manipulation. Such work will necessarily be of great benefit, both directly and indirectly, to students who intend subsequently to become engineers, physicians,

lawyers, agriculturists, or to follow any branch of pure or applied science.

*1—General Chemistry.*

5 hours

First Semester.

Physical and Chemical change. States of matter, elements, and compounds. Study of the following elements and of their more important derivatives: oxygen, hydrogen, nitrogen, carbon, fluorine, chlorine, bromine, iodine, sulphur, phosphorus, silicon, boron. The simpler laws of chemical combination. Special attention is given to the subjects of atmosphere and water. A number of easy numerical problems will be set for solution.

Texts: Holleman, *Inorganic Chemistry*, Trans. by Cooper; Waddell, *Arithmetic of Chemistry*.

*2—General Chemistry.*

5 hours

Second Semester.

Continuation of Course 1.

Study of the following metals and of their more important compounds: sodium, potassium, silver, copper, magnesium, calcium, strontium, barium, zinc, cadmium, mercury, aluminum, tin, lead, iron, arsenic, antimony, bismuth, manganese, chromium, iron, nickel, cobalt, gold. The rare elements and the metals of the platinum group also are considered. Stress is laid on those substances of particular importance in technology, medicine, and the arts, and the bearing of recent theories is indicated in an elementary manner.

Texts: See Course 1.

*4—Introductory General Chemistry.*

3 hours

Second Semester.

This course is designed to give the general student a conception of the fundamental principles underlying chemical science, together with some skill in manipulating apparatus. The course also forms an excellent

introduction to more advanced courses. In character the course is almost wholly laboratory.

Text: Hessler-Smith, Essentials of Chemistry.

5—*Qualitative Analysis.*

5 hours

First Semester.

Tests are made by each student for the recognition and separation of metals mentioned in Course 2, and of radicals derived from elements enumerated in Course 1. After the examination of easy mixtures, the analysis of more complex substances is made, including that of minerals and alloys of industrial importance. Lectures are given on the principles and theory of analysis.

Prerequisite: Courses 1 and 2.

Texts: Jones, Junior Course of Practical Chemistry; Lehfelddt, Physical Chemistry.

6—*Qualitative Analysis.*

5 hours

Second Semester.

Continuation of Course 5.

The work includes the analysis of plant ashes, tests for organic acids and bases, the detection of other organic substances of special interest to medical students, and the examination of foods, etc., for poison. Selected parts of chemical theory are studied, and periodicals and works of reference frequently consulted.

Texts: See Course 5.

7—*Quantitative Analysis.*

5 hours.

First Semester.

Operations of weighing and measuring. The student purifies and analyzes a few simple salts so as to be familiar with the more usual conditions under which gravimetric analyses are performed. Volumetric methods also are practiced as far as time permits. The studies in chemical theory are continued from Course

4. Collateral reading of periodicals and works of reference is required.

Texts: See Course 5.

8—*Quantitative Analysis.* 5 hours  
Second Semester.

Continuation of Course 7.

After completion of the volumetric work, substances of greater complexity are examined, including food, water, and technical products. The work is arranged as far as possible to satisfy each student's special interest. The student is called upon to present to the class the results of his particular study of some topic which he has selected with the advice of the Professor.

Text: Clowes and Coleman, *Quantitative Analysis*.

9—*Organic Chemistry.* 5 hours

Composition, sources, and general properties of organic compounds. Hydrocarbons of the methane, ethylene and acetylene series. Substitution and oxidation products. Alcohols, aldehydes, acids. Fats, soaps, and carbohydrates. Compounds of carbons containing elements other than oxygen, hydrogen, and the haloids. Methods of determining molecular weights. General theoretical relationships.

Prerequisite: Course 8.

Text: Wade, *Introduction to the Study of Organic Chemistry*.

10—*Organic Chemistry.* 5 hours  
Second Semester.

Continuation of Course 9.

Hydrocarbons with closed chains. Benzene and its constitution. The chief classes of benzene derivatives with special reference to those of technical importance. The simpler dyes. Napthalene and more complex compounds. Alkaloids. Organic synthesis. Corre-

lation of the properties and constitution of organic compounds. General theory.

Texts: See Course 9. Meyer, Determination of Radicles in Carbon Compounds.

### ENGLISH.

JOHN GRIFFITH AMES, Professor of English.

JANE SHERZER, Professor of English Philology.

The work in this department is arranged upon a plan that first gives the student a general survey of the history of English and American Literatures from their beginnings to the present day. After these preliminary courses, more definite and minute study is bestowed upon courses that center in the most significant periods of those histories. In addition, courses are given in Rhetoric and Composition.

#### 1—*Rhetoric.*

2 hours

First Semester.

Practical work in the study of Rhetoric by the application of its principles to the writing of themes in Narration, Description and Exposition. Criticism of short themes in the classroom. Frequent consultations. Professor AMES.

Text: A. S. Hill, Principles of Rhetoric.

#### 2—*American Literature.*

2 hours

Second Semester.

An outline course, with as much classroom and supplementary reading as possible. A study of the chief authors from the Colonial Period to the present day, with special attention to Longfellow, Hawthorne, Poe, Emerson, and Holmes. Frequent written reports. Recitations and lectures. Professor AMES.

Text: Pancoast, Introduction to American Literature.

3—*History of English Literature.* 3 hours

First Semester.

An outline course, with as much supplementary reading as possible. The most important authors from the Anglo-Saxon Period to the present day. The various periods and influences are discussed in connection with the works of writers typical of each period. The aim of the course is to awaken in the student an interest in English Literature, and to direct him in his search for what is best and noblest in that literature. Professor SHERZER.

4—*History of English Literature.* 3 hours

Second Semester.

Continuation of Course 3. Professor SHERZER.

5—*Composition.* 2 hours

First Semester.

Constant drill in written expression based on a study of American prose authors, Franklin, Irving, Hawthorne, and Poe. At first very short themes are written daily, then tri-weekly, and later gradually lengthened and required less frequently. Lectures on the principles of composition. Study of styles. Criticism of themes in the classroom. Weekly individual consultations. Professor AMES.

Text: Baldwin, College Manual of Rhetoric.

6—*Composition.* 2 hours

Second Semester.

A continuation of Course 5. Advanced work. Themes are less frequent and longer than in Course 5. Weekly exercises in popular and literary subjects. Cultivation of individual style. Study of the short story. Lectures by the instructor. Consultations. Professor AMES.

Prerequisite: Courses 1 and 5.

Reference book: Wendell, English Composition.



7—*English and Scotch Popular Ballads.* 3 hours  
First Semester.

Extensive reading in the old ballads of England and Scotland. Lectures on the origin, form, source, style, authorship, distribution, etc. Fortnightly reports. Professor AMES.

Text: F. B. Gummere, *English and Scotch Ballads*.

8—*Sixteenth Century Literature.* 3 hours  
Second Semester.

Lectures on the history of English Literature from the Revival of Learning to Milton, exclusive of the Drama. The chief works of Wyatt, Surrey, Spencer, Sidney, Hooker, Bacon, and Lyly are read. Supplementary reading. Professor SHERZER.

9—*Eighteenth Century Poetry.* 3 hours  
First Semester.

Lectures, biographical and critical. The first few weeks are devoted to the study of Dryden and Pope and to the growth and characteristics of the Classical School. The beginnings of the Romantic Movement in poetry. Extensive supplementary reading; Dryden, Gay, Pope, Prior, Thompson, Collins, Young, Gray, Goldsmith, Beattie, and Cowper are the poets studied. Fortnightly written reports.

Reference Books: Gosse, *Eighteenth Century Literature*; Beers, *English Romanticism in the XVIII Century*; Phelps, *Beginnings of the English Romantic Movement*; Garnett, *Age of Dryden*; Dennis, *Age of Pope*. Professor AMES.

10—*Nineteenth Century Poetry.* 3 hours  
Second Semester.

A continuation of Course 9. The development of the Romantic Movement and the Poetry of Revolt is further traced through the poetry of Burns, Blake, Scott,



Coleridge, Wordsworth, Byron, Shelley, Keats, and Tennyson. The poetry of Arnold, Morris, Rossetti, and Swinburne is also studied if time permits. Lectures by the instructor. Written reports. Professor AMES.

Prerequisite: Course 9.

Additional Reference Books: Saintsbury, Nineteenth Century Literature; Herford, Age of Wordsworth; Walker, Age of Tennyson.

*11—The English Novel.* 5 hours  
First Semester.

The history and development of English Prose Fiction from 1485 to the present day. Brief outlines of Continental Prose Fiction before 1485. Extensive reading of the best works of the masters of English novel-writing. Study of styles, methods, movements, and schools. Weekly written reports. Lectures by the instructor. Professor AMES.

Reference Books: Tuckerman, History of English Prose Fiction; Wm. Forsyth, Novels and Novelists of the XVIII Century; Dunlap, History of Fiction; Raleigh, The English Novel.

*12—The English Novel.* 5 hours  
Second Semester.

Continuation of Course 11. Professor AMES.

*13—Chaucer.* 3 hours  
First Semester.

A study of the literature of the fourteenth century. The Renaissance. Chaucer's Prologue and certain of the Canterbury Tales. Linguistic as well as literary study. Professor SHERZER.

Text: W. W. Skeat, The Student's Chaucer.

*14—Middle English.* 3 hours  
Second Semester.

A literary as well as linguistic study of prose and poetry from the late Anglo-Saxon of the twelfth century to Chaucer and his contemporaries of the fourteenth. The order of reading is from the later, and consequently easier, to the earlier and more difficult. Professor SHERZER.

Prerequisite: Course 13.

Text: Morris and Skeat, Specimens.

15—*Pre-Shakespearean Drama.*

3 hours

First Semester.

A study of the origin, structure, and evolution of the English Drama from the Mysteries, Miracles, Moralities, and Interludes, through Roister Doister, King Johan, and Gorboduc, Peele, Nash, Lyly, Kyd, and Marlowe, to Shakespeare. Lectures by the instructor. Professor SHERZER.

Text: Manley, Specimens of Pre-Shakespearean Drama, 2 vols.

16—*Shakespeare.*

3 hours

Second Semester.

Critical, textual, and literary study of selected plays: 2nd Henry IV, Twelfth Night, Julius Caesar, Lear, Hamlet, The Tempest. Supplementary reading. Lectures on the life, times, and genius of Shakespeare. Professor AMES.

Texts: Rolfe's edition of Shakespeare's Plays.

17—*Anglo-Saxon.*

2 hours

First Semester.

Anglo-Saxon grammar, with a preliminary study of Gothic inflections. Beowulf treated from a literary as well as linguistic side. Especial attention given to scansion and Anglo-Saxon versification. Lectures by the instructor. Professor SHERZER.

- 18—*Anglo-Saxon.* 2 hours  
Second Semester.

A continuation of Course 17. Professor SHERZER.  
Prerequisite: Course 17.

- 19—*Literary Criticism.* 2 hours  
First Semester.

A course designed to help students to understand why admired works of literature are admirable, and thus to lead them to form correct opinions for themselves instead of carelessly accepting traditional authorities. Professor AMES.

- 20—*Mythology.* 2 hours  
Second Semester.

A study of Greek, Roman, and Norse Mythologies, especially in their relations to English Poetry. Professor AMES.

## FRENCH.

EDWARD EARNEST RUBY, Assistant Professor.

The courses in French are designed to give the student a good knowledge of the forms and structure of the language and some acquaintance with its literature. Pronunciation is taught phonetically, and throughout the course practice is afforded in oral reading.

- 1—*Elementary French.* 5 hours  
First Semester.

Pronunciation and grammar, including the study of forms and of the more elementary features of syntax.

Texts: Passy, *La Légende du Quatrième Mage*; Fraser and Squair, *French Grammar*.

- 2—*Elementary French, continued.* 5 hours  
Second Semester.

Reading, composition, and grammar. The com-

position consists of the translation of sentences and of easy connected discourse. In the reading, emphasis is placed upon a full understanding of all idiomatic constructions. Practice is given in translation at sight.

Prerequisite: Course 1.

Texts: Fraser and Squair, French Grammar; Benton, Easy French Plays; Halévy, L'Abbé Constantin.

### 3—*Modern French.* 3 hours

First Semester.

Mérimée, Columba; Pailleron, Le Monde où l'on s'Ennuie; Maupassant, Contes; Dumas, La Question d'Argent.

Prerequisite: Course 2.

### 4—*Modern French.* 3 hours

Second Semester.

Continuation of Course 3. Augier, Le Gendre de Monsieur Poirier; Rostand, Cyrano de Bergerac; Balzac, Eugénie Grandet; Bowen, Modern French Lyrics.

Prerequisite: Course 3.

### 5—*Composition.* 2 hours

First Semester.

Review of grammar, and practice in written and oral translation from English to French.

Texts: Baillot and Brugnot, French Prose Composition; Hennequin, Lessons in Idiomatic French.

### 6—*Composition.* 2 hours

Second Semester.

Continuation of Course 5.

Prerequisite: Course 5.

### 7—*Classic Drama.* 3 hours

First Semester.

The study of one play each of Corneille and Racine, and two of Molière; collateral reading and reports.

Texts: Corneille, *Le Cid*; Racine, *Athalie*; Molière, *Le Misanthrope*, and *L'Avare*.

Prerequisite: Course 4.

8—*Eighteenth Century Literature*. 3 hours

Second Semester.

Studies in Montesquieu, Voltaire, Diderot, Rousseau, and Beaumarchais; collateral reading and reports.

Prerequisite: Course 7.

GERMAN.

MARTIN HENRY HAERTEL, Assistant Professor.

The objects to be attained in these courses are correctness of pronunciation, thorough knowledge of the structure of the language, and an introduction to its literature. German is made, as soon as possible, the language of the class-room.

1—*Elementary*. 5 hours

First Semester.

Drill in pronunciation, the rudiments of grammar, abundant exercises in translation and memorizing. Simple reading matter is introduced early in the course.

Texts: Thomas, *Practical German Grammar*. Vos, *Materials for German Conversation*.

2—*Elementary*. 5 hours

Second Semester.

A continuation of course 1.

Texts: Stern, *Geschichten vom Rhein*; Storm, *Immensee* (ed. Whitenack); *Drei kleine Lustspiele* (ed. Wells).

3—*Intermediate*. 4 hours

First Semester.

The first part of the course consists of a thorough drill in composition. A beginning is made in the reading of German classics.

Texts: Von Jagemann, Elements of German Syntax; Von Jagemann, Materials for German Prose Composition; Heine, Die Harzreise (ed. Van Daell.)

4—*Intermediate.*

4 hours

Second Semester.

A reading course in Schiller.

Texts: Wilhelm Tell (ed. Carruth); Maria Stuart (ed. Müller und Wenckebach); Jungfrau von Orleans (ed. Wells).

5—*Advanced.*

3 hours

First Semester.

A reading course in Freytag's Prose.

Texts: Selections from "Bilder aus der deutschen Vergangenheit," as follows; Karl der Grosse, Aus dem Klosterleben im zehnten Jahrhundert, Aus den Kreuzzügen (ed. Nichols); Doktor Luther (ed. Goodrich); Aus dem Staat Friedrichs des Grossen (ed. Hager.)

6—*Advanced.*

3 hours

Second Semester.

A reading course in Goethe's Dramas.

Texts: Egmont, with Schiller's Essays (ed. Winkler); Torquato Tasso (ed. Thomas.)

GREEK.

JOHN MARTIN REDPATH, Instructor.

Beginning with Elementary Greek, the College offers courses covering three consecutive years which meet the full requirements of the A. B. degree. Students entering college with advanced standing in Greek will enter whatever courses they are prepared to pursue. Besides the required courses, the College offers electives, planned to give students some understanding of the field of Greek Literature.

1—*Elementary Greek.* 5 hours  
First Semester.

Text-book: White's First Greek Book.

2—*The Anabasis.* 5 hours  
Second Semester.

A thorough reading of Books I and II, with careful drill in forms and syntax; Greek composition. Students must take Course 2 immediately after completing Course 1.

Texts: Goodwin and White, *Anabasis*; Goodwin, *Greek Grammar*.

3—*Xenophon and Homer.* 5 hours  
First Semester.

Thorough reading of Books III and IV of the *Anabasis*. As an introduction to Homer, lectures upon Mycenaean Antiquities, Homer, Homeric dialect and meter, etc. Careful study of Book I of the *Iliad*. Greek composition based upon the *Anabasis* throughout the semester.

Prerequisite: Course 2.

4—*Homer.* 5 hours  
Second Semester.

Course 3 continued. Selections from the *Iliad*. Students are expected to master the whole story in considerable detail. Twelve books of the *Odyssey*. Greek composition based upon the *Anabasis*.

Prerequisite: Course 3.

5—*Lysias and Xenophon.* 5 hours  
First Semester.

Reading of Lysias' most interesting orations with attention to his evidence upon points of Athenian history, law, and private life. Selections from Xenophon's *Memorabilia*; outline of Pre-Socratic Philosophy; lec-



tures upon Socrates; an outline of Greek Literature.

Prerequisite: Course 4.

6—*Plato.*

5 hours

Second Semester.

Reading of Apology and Crito, with such selections from other dialogues as time permits. Lectures upon Plato and Socrates. Outline of Greek Literature continued.

Prerequisite: Course 5.

ELECTIVE COURSES.

7—*The Drama.*

2 hours

First Semester.

Sophocles' Oedipus the King; Euripides' Alcestis or Electra. Lectures upon Attic drama and theatrical antiquities.

Prerequisite: Course 6.

8—*The Drama.*

2 hours

Second Semester.

Aeschylus, Agamemnon; Aristophanes, Clouds; Lectures upon origin and development of Tragedy and Comedy.

Prerequisite: Course 6.

9—*Demosthenes.*

2 hours

Second Semester.

Philippics I-III and the Olynthiacs.

Prerequisite: Course 6.

10—*Thucydides and Herodotus.*

2 hours

Second Semester.

Thucydides, Book II, and as much as possible of the Sicilian expedition. Sight translation in Herodotus, VII-IX.

Prerequisite: Course 6.

- 11—*New Testament Greek.* 2 hours  
First Semester.

A rapid reading course, with merely enough commentary by the instructor for a clear understanding of the text. The Gospel of Luke, parts of The Acts, and parts of Paul's Epistles.

Prerequisite: Course 6.

- 13—*Greek Poetry in Translations.* 1 hour  
First Semester.

Greek lyric and dramatic poetry will be studied in translations. Lectures upon the lives of the poets, upon the origin and development of Tragedy and Comedy, and upon theatrical antiquities. Open to all Juniors and Seniors. No knowledge of Greek is required.

- 14—*Continuation of Course 13.* 1 hour  
Second Semester.

NOTE—Courses 7, 8, 13, and 14 form one group; courses 9, 10 and 11 another. These groups are offered in alternate years. In 1903-04 the former group is open to election.

## HISTORY AND POLITICAL SCIENCE.

CHARLES HENRY RAMMELKAMP, Professor.

In this department are included the courses in History, Politics, and Economics, grouped under the two heads of History and Political Science. A minimum amount of collateral reading is required in all the courses, the results of which are presented in written reports. In the more advanced courses in History the lectures and text-books are further supplemented by the study of selected original documents.

## HISTORY.

- 1—*The Middle Ages.* 3 hours  
First Semester.

The history of Europe from the latter part of the fourth to the end of the fifteenth century. The course aims to give a general view of the period from the fall of Rome to the discovery of America. In the history of this period some special topic, such as Feudalism or the Crusades, will be selected for more detailed study.

- 2.—*Modern History* 3 hours  
Second Semester.

The period covered extends from the Renaissance to the Franco-German War. Of the events of this period more especial attention will be given to the Protestant Reformation, the Thirty Years' War, the Seven Years' War, the Revolution of 1848, and the establishment of the present German Empire.

Courses 1 and 2 are introductory and required of students before admission into the other courses of the department.

- 3—*History of England.* 3 hours  
First Semester.

The history of England from the Norman Conquest to the accession of Elizabeth. While most emphasis will be laid upon political history, the more important constitutional and economic phases of the period will not be neglected. Lectures, recitations, and collateral reading, supplemented by studies in Adams' and Stephens' Select Documents.

Prerequisites: Courses 1 and 2 or their equivalents.

- 4—*History of England.* 3 hours  
Second Semester.

The history of England from the accession of Elizabeth to recent times. This course, a continuation of

Course 5, will deal with the later period of English history. The religious policy of Elizabeth, the constitutional aspects of the Civil War, and of the Revolution of 1688, the development of the cabinet system and the movement for Parliamentary reform will receive especial attention. The course will also include a brief study of the rise of English power in India. Method of study similar to that of Course 3.

Prerequisite: Course 3.

5—*The Renaissance and Reformation.* 3 hours  
First Semester.

This course deals with the period from the fourteenth to the end of the sixteenth century. Beginning with a study of the Renaissance in Italy, the course will trace the development of the Revival of Learning in the other countries of Europe. The latter part of the semester will be devoted to a study of the religious revolt from the Church of Rome.

Prerequisites: Courses 1 and 2 or their equivalents.

6—*French Revolution and Napoleonic Era.* 3 hours  
Second Semester.

The course includes the history of the important countries of Europe between 1789 and 1815, but particular attention will be given to the revolution in France and the consequent international complications, and to the rises and overthrow of the power of Napoleon.

Prerequisite: Courses 1 and 2 or their equivalents.

7—*American History.* (1783-1829). 3 hours  
First Semester.

A general course on the history of the United States from the end of the Revolution to the administration of Andrew Jackson. The course will deal mainly with the political and constitutional aspects of the period. Special attention will be given to the movement that led to the adoption of the federal constitution. Lec-

tures, recitations, topical reports, and studies in Macdonald's Select Documents.

- 8—*American History*. (1829-1876). 3 hours  
Second Semester.

History of the United States from the administration of Andrew Jackson to the presidential election of 1876, with particular reference to the Jacksonian Democracy, the Slavery Controversy, and the Reconstruction of the Southern States. Method of study similar to that of Course 7.

Prerequisite: Course 7.

- 9—*Seminary in History*. 1 hour  
First Semester.

A course designed for advanced students to give some training in original research. Introductory work on historical bibliography and criticism, followed by the writing of a thesis. The course aims to prepare students to compete for the Reid prize in history.

- 10—*Seminary in History*. 1 hour  
Second Semester.

A continuation of Course 9, giving an opportunity for further practical work in historical research.

Prerequisite: Course 9.

#### POLITICAL SCIENCE.

The courses in Political Science are designed for Juniors and Seniors; they are not open to Freshmen, and only by special permission to Sophomores.

- 1—*Economics*. 3 hours  
First Semester.

An elementary course in Political Economy. A study of the principal theories of economic science, with some consideration of the economic problems presented in the earlier and contemporary history of the United States.

2—*Public Finance.* 3 hours  
Second Semester.

A study of the general principles which determine public income and expenditure, with especial reference to taxation in the United States.

Prerequisite: Course 1.

3—*Political Institutions* 3 hours  
First Semester.

Introductory studies on the nature of the state and the interpretation of political terms, such as sovereignty, liberty, etc., followed by a detailed consideration of the government of the United States, with especial reference to present political problems. The governments of the important European countries will also be studied and compared with one another and with our own political system.

4—*International Law.* 3 hours  
Second Semester.

A course designed to explain the origin and interpretation of the rules governing the relations of modern nations. Especial attention will be given to the past and present problems of American diplomacy.

Prerequisite: Course 3.

5—*Economic History.* 2 hours  
First Semester.

The industrial history of England and the United States as a basis for a more intelligent interpretation of present economic conditions.

6—*Money, Credit, and Banking.* 2 hours  
Second Semester.

The course deals with such subjects as the functions of money, laws of token money, legal tender, the history of gold and silver money in the United States, nature and functions of a bank, discounts and deposits,



note issues, bank reserves, the national banking system, etc.

Prerequisite: Course 1.

## LATIN.

FREDERICK WARREN SANFORD, Professor.

In the work of the Freshman year the student's attention is directed to the subject of Latin style more closely than is possible in the preparatory school. Special emphasis is placed upon accurate translation into idiomatic English. Some time is given to sight translation throughout the year and to prose composition based on Cicero and Livy. In subsequent years more attention is paid to the authors read as interpreters of Roman life; the work is amplified by lectures on Latin Literature and special topics.

1—*Cicero and Livy.* 5 hours

First Semester.

Cicero's *De Amicitia*; Livy, Book I; lectures on the credibility of early Roman history; selections from Books XXI and XXII. Prose composition.

2—*Lyric Poetry.* 5 hours

Second Semester.

Selected poems of Catullus. The greater part of the semester is devoted to Horace's Odes and Epodes.

Prerequisite: Course 1.

3—*Sallust and Tacitus.* 3 hours

First Semester.

Sallust's *Catiline*; the *Agricola* and *Germania* of Tacitus.

Prerequisite: Course 2.



4—*Comedy.* 3 hours  
Second Semester.

Selected plays of Plautus and Terence. Daily practice in reading aloud and in sight translation.

Prerequisite: Course 3.

5—*Epistolary Latin.* 3 hours  
First Semester.

Cicero, selected letters, studied particularly for their contribution to the history of the last years of the Republic; Pliny, selected letters, studied as illustrating the life of a Roman gentleman, official and man of letters under the early Empire.

Prerequisite: Course 4.

6—*Satire.* 3 hours  
Second Semester.

Selections from Horace, Juvenal and Persius; lectures on the historical development of Satire.

Prerequisite: Course 5.

7—*Latin Prose of the Empire.* 2 hours  
First Semester.

Gudeman's selections; a rapid reading course designed to give the student some acquaintance with authors not introduced in other courses of this department.

Prerequisite: Course 6.

8—*Latin Poetry of the Empire.* 2 hours  
Second Semester.

Gudeman's selections; a rapid reading course with the same purpose as that of Course 7.

Prerequisite: Course 6.

9—*Philosophy.* 4 hours  
First Semester.

A brief study of Mayor's Ancient Philosophy. Selections from Lucretius, Cicero and Seneca; part of the

reading in the original, part in translations.

Prerequisite: Course 6.

10—*Tacitus*. 4 hours

Second Semester.

Selections from the Annals and Histories; the historical side of the work is kept chiefly in view; some attention is paid to the development of the author's style by comparison with his other works.

Prerequisite: Course 6.

11—*Topography and Monuments of Rome*. 2 hours

First Semester.

A course of lectures designed to familiarize the student with the more salient features of the city's topography, its growth, its public buildings and places of resort and their existing remains.

Prerequisite: Course 2.

12—*Roman Private Life*. 2 hours

Second Semester.

Among the subjects considered are the Roman family, business life, education, amusements, houses, dress, meals, baths, etc.; the student will use as a manual, Johnston's "The Private Life of the Romans."

Prerequisite: Course 2.

## MATHEMATICS AND ASTRONOMY.

FRANK MARION MORRISON, Professor.

The courses in Mathematics are designed to give, besides the inherent discipline, a foundation for further work in the pure science and in some applied lines, such as Engineering, Physics and Astronomy.

A sequence of three or four years work is offered, depending upon the line selected.

In Astronomy one course of a descriptive nature is given for the general student, and a second as a foundation for work in Mathematical Astronomy.

1—*College Algebra*. 4 hours

One half of First Semester.

Quadratic equations, development of functions in series, partial fractions, reversion of series, binomial theorem, convergency and summation of series, logarithms, permutations and combinations, continued fractions, elementary theorems in theory of equations, elements of determinants.

Text: Wells, *College Algebra*.

*Plane Trigonometry*. 4 hours

One half of First Semester.

Trigonometric functions and formulae, logarithmic functions, trigonometric equations, solution of right and oblique angled triangles, DeMoivre's theorem and trigonometric series.

Text: Lyman & Goddard, *Plane and Spherical Trigonometry*.

2—*Analytical Geometry*. 4 hours

Second Semester.

Continuation of Course 1.

The point, right line, circle, parabola, ellipse and hyperbola in cartesian and polar coordinates, discussion of the general equation of the second degree.

Text: Tanner and Allen, *Analytical Geometry*.

3—*Differential Calculus*. 5 hours

First Semester.

Differentiation of functions of one and several variables, development of functions, indeterminate forms, maxima and minima of one and several variables, tangents and normals, asymptotes, direction, contact and curvature, evolutes and involutes, envelopes, singular points, curve tracing.

Prerequisite: Courses 1 and 2.

Text: McMahon and Snyder, *Differential Calculus*.

4—*Integral Calculus.* 5 hours

Second Semester.

Continuation of Course 3.

Integration of elementary forms, of rational and irrational functions, of trigonometric and exponential functions; multiple integrals; rectification of curves; quadrature of plane and curved surfaces; cubature of volumes; applications to mechanics.

Text: Murray, *Integral Calculus*.

5—*Advanced Integral Calculus.* 4 hours

First Semester.

General theory of definite integrals, Fourier series, Gamma functions, geometrical applications of definite integrals, multiple integrals with applications, introduction to elliptic integrals and functions.

Lectures.

Prerequisite: Courses 1, 2, 3, and 4.

6—*The Theory of Functions.* 4 hours

Second Semester.

The complex variable, bilinear transformation, monogenic functions, definite integrals with complex variable, holomorphic functions, power series, meromorphic functions, transcendental and logarithmic functions, Riemann surfaces.

Lectures.

Prerequisite: Courses 1, 2, 3, 4 and 5.

7—*Solid Analytics.* 3 hours

First Semester.

Planes, surfaces of the second degree, sections of conicoids, generating lines of conicoids, systems of conicoids, confocal and concyclic conicoids, foci, quadriplanar and tetrahedral coordinates, introduction to theory of general surfaces.

Prerequisite: Courses 1 and 2.

Text: Smith, *Solid Geometry*.

8—*Modern Analytic Geometry.* 3 hours

Second Semester.

Trilinear homogeneous point and line coordinates, dual problems, anharmonic ratio, projective elements, pencils and ranges, curves of second order, poles and polars, polar triangle, degenerate conics, curves of second class, Pascal's theorem, Brianchon's theorem, pencil of conics, range of conics, foci, net of conics.

Lectures.

Prerequisite: Courses 1, 2, 3, and 4.

9—*Descriptive Astronomy.* 4 hours

First Semester.

Fundamental facts and laws, with underlying principles; general theories and modern developments; instruments and general methods.

Prerequisite: Courses 1 and 2.

Text: Young, General Astronomy.

10—*Theoretical Astronomy.* 4 hours

Second Semester.

History. Kinetics: general theorems, Newton's three laws of motion, motions of centers of gravity. Central forces: general theorems, Kepler's law of planetary motion, law of angular and linear velocity. Problem of two bodies: development of the ten known integrals, potential function. Solar heat: Helmholtz theory, meteoric theory. Double-star orbits.

Lectures and reference reading.

Prerequisite: Courses 1, 2, 3, 4, and 9.

11—*Analytical Mechanics.* 4 hours

First Semester.

Elementary principles. Statics: composition and resolution of forces, conditions of equilibrium, center of gravity, friction, virtual velocities, machines, funicular polygon, the catenary, attraction. Kinetics: motion under the action of a variable force, motion in a

resisting medium, central forces, constrained motion, impact, work and energy, moment of inertia, rotary motion, motion of a system of rigid bodies in space.

Prerequisite: Courses 1, 2, 3, and 4. Physics: Courses 1 and 2.

Text: Bowser, Analytic Mechanics.

## 12—*Surveying.*

4 hours

Second Semester.

Recitations; field work with transit and level; measuring angles, distances, areas; laying out of land, curves; leveling; plotting.

Prerequisite: Courses 1 and 2.

Text: Johnson, Theory and Practice of Surveying.

## ORATORY.

WILLIAM MATHER LEWIS, Assistant Professor.

The courses in Oratory are planned with the idea of giving the student at least three consecutive years of work along lines which will develop his powers of clear and original expression. From the beginning course in Physical Culture to the study of Dramatics in the Senior year, the individuality of the student is emphasized and his ease and grace in delivery cultivated by careful personal instruction.

## 1—*Declamation.*

1 hour

First Semester.

Physical culture exercises for poise and bearing, for the vital organs, and for special muscles; correct standing; breathing exercises for the development of the vocal organs; critical study of English pronunciation; drill in reading.

## 2—*Declamation.*

1 hour

Second Semester.

Physical Culture. Lectures on vocal culture and the relations of the vital and vocal organs. Declamation,

study of selections from American writers, simple impersonations.

3—*Oratory.* 2 hours  
First Semester.

History of Oratory. Lectures upon the lives of the great orators. Study of the principles of Oratory, using as examples the work of Demosthenes, Paul, Cicero, Burke, Pitt, Webster, Lincoln. Philips. Study and analysis of standard Deliberative, Forensic, Pulpit and Demonstrative Orations. Preparation and delivery of Deliberative Orations.

4—*Oratory.* 2 hours  
Second Semester.

Preparation and delivery of Demonstrative Orations. Principles of argument, gathering of materials and preparation of arguments on assigned subjects. Preparation of rebuttals. Class debates.

Text: Baker, *The Principles of Argumentation.*

5—*Evolution of Expression.* 3 hours  
First Semester.

Physical Culture. Laws of Evolution as applied to the development of the powers of vocal expression. Study of selections from the great orators, essayists, dramatists, and poets in chronological order to illustrate Evolution of Expression.

Text: Emerson, *Evolution of Expression.*

6—*Evolution of Expression.* 3 hours  
Second Semester.

Continuation of Course 5.

7—*Dramatics.* 1 hour  
First Semester.

Study of the history and technique of the Drama.



Character studies from contemporary authors; presentation of scenes from Shakespeare.

Text: Woodbridge, *The Drama, Its Laws and Its Technique*.

8—*Dramatics*.

1 hour

Second Semester.

Study of the modern Drama with the public presentation of a standard play.

PHILOSOPHY AND RELIGION.

FREDERICK SMITH HAYDEN, Professor.

The work in Philosophy is intended to be both cultural and disciplinary. The student is helped to attain points of view of his own for thinking clearly and consistently upon the vital problems of life and of thought.

PHILOSOPHY.

1—*Elementary Psychology*.

3 hours

First Semester.

Study of the elementary processes of the mind, cognitive, effective, and volitional—both from the psychological and the physiological point of view. A standard text-book, such as James' "Briefer Course" or Stout's "Manual," forms the basis of the work and the point of departure for discussion.

2—*Comparative Psychology*.

1 hour

Second Semester.

A comparative study of the intelligence of animals from the lowest forms up to, and including man. The sphere of instinct and reason, with varying types of development. Discussion of the theories of Morgan and Romanes. The work of one of these authorities is made the basis of the course, and references to the essential features of the others are given.

Prerequisite: Course 1.

3 and 4—*History of Ancient Philosophy.* 2 hours  
Entire year.

This course deals with the development of thought among the Greeks and Romans especially. Windelband's *History of Ancient Philosophy* is used as a textbook, supplemented by the study of typical selections from the works of Plato, Aristotle, Seneca, Lucretius, etc.

Given in alternate years with Courses 5 and 6.

5 and 6—*History of Modern Philosophy.* 2 hours  
Entire year.

An outline of the development of modern thought from the Renaissance to our own times. Considerable attention is given to a few of the more important systems, such as those of Descartes, Locke, Berkeley, Hume, Kant, and Hegel. Selections from the authors themselves are studied critically with a view to getting clear conceptions of their leading principles.

7 and 8—*History of Philosophy, Advanced Course.* 3 hours  
Entire year.

An intensive and thoroughly critical study of some one of the great masterpieces, such as Kant's "Critique of Pure Reason," Schopenhauer's "The World as Will and Idea," etc. A different work is chosen each semester, so that the course may be taken for the whole year or elected for either semester.

Prerequisite: Courses 1, 5 and 7.

9—*Ethics.* 2 hours  
Second Semester.

The treatment of this subject begins with a brief historical sketch—an outline of the main features of the most influential and representative ethical theories. The fundamental ethical concepts are then subjected to careful logical and psychological analysis, the re-

sults of which are brought to bear upon the more detailed study and criticism of the theories already studied in outline. Constructive work accompanies criticism.

Prerequisite: Course 1.

10—*Theism and Anti-Theistic Theories.* 2 hours  
Second Semester.

A course of lectures supplementary to the courses in Philosophy will be given, dealing with the scientific conception of the world, the design argument, materialism, agnosticism, and pessimism. Royce's "Religious Aspects of Philosophy," or Orr's "Christian View of God and the World," or Fairbairn's "Philosophy of Christianity," may be adopted as text or guide for discussions in this course.

DEPARTMENT OF PHYSICS.

FRED H. H. CALHOUN, Assistant Professor.

The courses which are here presented are designed to give the student a knowledge of the general phenomena of Physics, the methods and instruments which are used in their investigation, and the scope of modern work in the department. Special attention is given in the elementary work to the practical relation of the subject and every effort made to develop a spirit of scientific inquiry. A sequence of several years' work is offered in the department.

1—*General Physics.* 5 hours  
First Semester.

Mechanics, Sound, Heat, will form the topics for the work of the first semester.

Two lectures or recitations, with six hours laboratory work per week.

2—*General Physics.* 5 hours  
Second Semester.

Light, Electricity and Magnetism will be taken up during the second semester. Special attention will be given to recent advances in Electricity.

Two lectures or recitations, with six hours laboratory work per week.

3—*Theoretical Physics.* 3 hours  
First Semester.

This course is intended for those who have completed Courses 1 and 2 and who desire to take up work in engineering. The theory of the experiments performed in the laboratory will be discussed in detail.

4—*Advanced Experimental Physics.* 3 hours  
Second Semester.

A continuation of Course 3. The experiments will be of a practical character and will consist for the most part of those relating to Light, Electricity and Magnetism.

## DEPARTMENT OF GEOLOGY.

FRED H. H. CALHOUN, Assistant Professor.

The work of this department is intended to give the student some knowledge of field Geology. As far as opportunity will permit, places of interest around Jacksonville will be visited and various topographic types studied.

1—*Physiography.* 3 hours  
First Semester.

The aim of this course is to illustrate the principles of science by applying them to the physical world. The course is divided into four parts: The Earth as a Globe, the Atmosphere, the Ocean, and the Land. Throughout the course the fact that man has a definite relation to his physical environment is developed.

Text: Gilbert and Bingham, *Physiography*.

2—*Geology.* 3 hours  
Second Semester.

An introductory course; it is adapted both for students who desire to follow up Geology exhaustively in field work or in engineering, and for those who wish to gain merely an outline of the principal results of the subject.

Text: Scott's Geology.

3—*Mineralogy and Petrology.* 3 hours  
First Semester.

In the Mineralogy the rock forming minerals will be taken up. As much of Crystallography as is needed to identify these minerals will be given in lectures. In Petrology the methods in which these minerals group themselves to form the different species of rocks will be discussed.

Text: Dana's Mineralogy.

4—*Advanced Geology.* 3 hours

Reading will be done under the direction of the instructor. Lectures on recent advances along geological lines will be given.

## SOCIOLOGY.

### PRESIDENT BARNES.

The courses in Sociology are intended to give students a general survey of the social, intellectual, and physical development of the human race, in so far as this plays a part in man's relations to his fellows; and to present for consideration some of the problems in modern life, which result from the failure of individuals to fulfill their social obligations.

1—*Anthropology.* 2 hours  
First Semester.

A general course of study in the development of man, including social characteristics and ethnology; but giving special attention to the growth of those religious, social, political, and economic institutions which have their origin in primitive society.

Texts: Taylor, *Anthropology*; Brinton, *Races and Peoples*.

2—*Sociology*.

2 hours

Second Semester.

A study of the forms of human association and the principles underlying them, together with a brief consideration of the various problems resulting from a dependent and defective class, and the different means employed for remedy and relief.

Texts: Gidding, *Principles of Sociology*; Wright, *Elements of Practical Sociology*.





# WHIPPLE ACADEMY

Preparatory Department of  
Illinois College

# WHIPPLE ACADEMY.

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## FACULTY.

CLIFFORD WEBSTER BARNES, President.

WILLIAM MATHER LEWIS, Principal,  
*English and Oratory.*

FREDERICK WARREN SANFORD,  
*Latin.*

JOHN GRIFFITH AMES, JR.,  
*English.*

JOHN BISHOP TINGLE,  
*Chemistry.*

JAMES BERTRAM OVERTON,  
*Biology.*

FRANK MARION MORRISON,  
*Geometry.*

FREDERICK SMITH HAYDEN,  
*History.*

JANE SHERZER, Dean of Women.  
*English.*

FRED H. H. CALHOUN,  
*Physics and Algebra.*

MARTIN HENRY HAERTEL,  
*German.*

STELLA LENORE COLE,  
*German.*

EDWARD EARNEST RUBY,  
*Latin.*

JOHN MARTIN REDPATH,  
*Greek.*

CAROLYN S. GREENE, Instructor.

## MISCELLANEOUS INFORMATION.

Whipple Academy, which was founded twenty-five years ago, has long held its place among the leading fitting schools of the west and its graduates have done much to reflect credit upon the instruction received. Connected as the Academy is with Illinois College, the students enjoy the exceptional advantage of receiving instruction from College professors, all of them men and women who have been chosen for their positions on account of marked ability in the branches in which they specialize. Up to 1903 Whipple Academy was a strictly boys' school, but now, owing to the merging of the Jacksonville Female Academy, its doors are open to boys and girls alike.

The Jacksonville Female Academy, organized in 1830, was the first school in the west for the education of young women. Its beginning and history are nearly contemporary with that of the beautiful city in which it is located. With its brilliant record and fine equipment, it adds much of strength and life to Whipple Academy, and the schools united will maintain the high standards of educated manhood and womanhood, which, through so many years, they have stood for separately.

The work of the Academy is distributed over three years, the object being to enable energetic students to accomplish in three years the work done in high schools in four years. Each year is divided into two terms or semesters of equal length.

## DORMITORIES.

A general description of the Dormitories will be found in General Information, in the first part of the Catalogue. North Hall will hereafter be reserved for the exclusive use of the Academy boys. Instructors occupy rooms in this hall and see that study hours are observed, and the Academy regulations are lived up to.

## CONDUCT.

*Boys:* Quiet, gentlemanly conduct is required of students at all times. Instructors will furnish every incentive and take all care to encourage the development of the best in each individual student.

No student will be allowed to remain in the Academy who does not give evidence of diligent study, or who is unwilling to yield cheerful obedience to the rules of the institution.

The students are expected to be in their rooms five evenings each week.

The use of tobacco in public places is prohibited, and students who use profane language are subject to the penalty of suspension.

## STUDY HALL.

Recitations are conducted from 8:15 a. m. to 3:30 p. m. Each student is required to be present in the Academy Study Hall for one hour a day for study and assistance in the preparation of lessons. An instructor is always in charge, who gives his whole attention to individual instruction and explanation. This has proved a valuable feature of the work of the

Academy, supplementing the work of the class room, and giving students the advantage of private instruction. Absences from the Study Hall are reported as strictly as absences from recitation.

#### LITERARY SOCIETIES.

The students of Whipple Academy support three literary societies, one for the boys and two for the girls. Philologian, the boys' society, has its home in a splendidly equipped room in Beecher Hall. This society meets on alternate Friday nights, and is open to all the Academy boys. The society offers excellent opportunities for thorough practice in declamation, essay, and debate work and parliamentary usage. Philomathean and 'Tau Omega, the girls' societies, have rooms in Academy Hall. Their meetings prove to be most helpful features in developing the students along lines of effective expression, and they receive the hearty support of the girls.

#### LIBRARIES.

Students of the Academy have access to the College Library, the value of which has been greatly increased by its thorough reorganization and the introduction of the Dewey system of classification: The number of volumes is over 10,000. The reading room adjoining the library is well supplied with papers and periodicals. A library of one thousand volumes is maintained in Academy Hall for the use of the students residing there. In addition to these two libraries, the students have access to the beautiful new Carnegie Library, maintained by the city. The library

building is situated but two blocks from Academy Hall. Every courtesy is extended to the students and much help given them in the selection of material for special work. To supplement the work in English a reading course is provided, for which books may be drawn from the College Library and read under the direction of the Principal.

#### PHYSICAL TRAINING.

Opportunity for physical exercise is given under a competent instructor. Students are required, during the winter months, to attend Gymnasium, where they are given systematic drill in club-swinging, dumb-bell exercises, etc., the object being to strengthen the muscles most requiring development. In the class room the students are given physical culture instruction. Correct poise, breathing and the relationship of organs and muscles are studied. In out-door athletics the students are carefully trained in track and field work. During the winter a cross-country team and an indoor base-ball team are maintained, and an athletic meet is held in the Gymnasium. On the campus are well kept foot-ball and base-ball fields and tennis courts.

#### ADMISSION.

Candidates for admission are supposed to have completed the English common branches. They must show certificates of promotion from the eighth grade of the public schools. Otherwise they must be prepared to pass careful examinations. Candidates for advanced standing must satisfy instructors, by cer-

tificate or examination, that they are prepared for the work they desire to do. Certificates should indicate the text-book studied, the exact amount of work done, the time spent upon the subject, and the grade. In the sciences text-book work alone will not be excepted as a full equivalent for the courses in the Academy. As to the time of entrance, it is much better for the student to enter at the beginning of the first semester. An opportunity, however, is given for entering at the beginning of the second semester. Testimonials of character will be required of all students.

#### SPECIAL STUDENTS.

While it is primarily a preparatory school for Illinois College, Whipple Academy offers an elective course for those who wish to prepare for other institutions. Such subjects may be selected from Academy and College courses as are required for entrance to the Freshman class of the College which the special student expects to attend. Special students will be under all the regulations which apply to regular Academy students, but they will not be given class standing or be permitted to compete for any class prizes.

#### REGISTRATION.

Each student must report in person at the Principal's office before 1 p. m. of the first day of each semester and register. New students, both those entering the Junior class and those desiring advanced standing, must present at this time statements of the courses pursued in those schools from which they



come. Any student who does not register in accordance with the above rules, will not be allowed to register until he has received permission of the Principal and has paid a fee of one dollar.

### TUITION AND FEES.

All tuition and fees are payable to the Treasurer at the time of registration. No student will be enrolled until he presents a receipt from the Treasurer. In exceptional cases, by depositing \$5.00 in addition to the registration fee, a student will be given a receipt in part. This deposit will be forfeited unless the remainder is paid within thirty days.

### ATTENDANCE.

Each student is required to be regular in his attendance upon chapel services, class exercises, and Study Hall; but to allow for such absences as may seem necessary, the following rules have been adopted:

On the day following that in which an absence occurs, the student must present an excuse for absence signed by one of his parents, or the person with whom he is living. The only excuses accepted will be those for illness, absence from the city, or necessary work. Each unexcused class absence subtracts three per cent from the student's semester standing and nine such absences drop him from the Academy. Students living in the dormitories must present excuses for absence approved by an instructor residing in the building.

## EXAMINATIONS AND GRADES.

Frequent written tests in the different Academy courses are given and thorough written examinations are held at the end of each semester. Absence from a semester examination, except by reason of absolute necessity, will be regarded as failure in the course. The results of the examinations are combined with those of the recitations to decide the standing of the student.

Any student attaining an average of 70 or above in the work of the semester is passed. A student attaining an average of less than 70, and as much as 60, is conditioned and must make up the work outside of class in any way which the instructor may direct.

A student who does not obtain a grade of 60 fails and must take the course the next time it is offered.

## RECORDS AND REPORTS.

Careful records are kept of the attendance, conduct, and scholarship of the students and reports are sent to the parents each month and at the end of each semester. It is only by the closest co-operation of teacher and parent that the best results are obtained, and so the parents are expected to make careful note of the marks and suggestions which the reports contain and bring their influence to bear in improving the work of the students.

## GRADUATION EXERCISES.

The Whipple Commencement Exercises are held on Tuesday of Commencement week. Certificates are

then awarded to all who have completed the regular work, and to those, who, in the opinion of the Faculty, have creditably finished an elective course equal in amount and quality to the prescribed work. At the Commencement Exercises, essays and declamations are given by the graduates. Eight students are appointed by the Faculty to represent the class, on the following considerations: First, general proficiency in the studies pursued; second, special excellence in rhetoric and elocution; third, gentlemanly conduct throughout the entire course. The following were the appointments made for 1902:

Charles A. Carriel, Irving S. Chenoweth, Erle J. Hurie, Wiley L. Hurie, Thomas E. Kirby, Ira E. Scott, Frederick F. Spencer, Jay E. Wemple.

### PRIZES.

All prizes are offered each year. The Faculty is authorized, however, to withhold a prize in any instance in which reasonable competition is not manifested by members of the class entitled to compete.

No student will be allowed to compete for a prize in a course which he does not pursue with his class at the regular time.

During the year 1903-4, prizes known as the Whipple Prizes, ten dollars for the first and seven dollars for second, will be given to the members of the Senior class for the best work in declamation. The Smith prize of fifteen dollars is also offered to the students of the Senior class for the best essay and composition work during the year. All prizes are awarded in books, chosen by the successful student

and approved by the Principal. Since the publication of the last catalogue, prizes have been awarded as follows:

Whipple Prizes, 1902: First, Wiley L. Hurie; second, Charles Arthur Carriel; Smith Prize, 1902, Erle J. Hurie.

### SCHOLARSHIPS.

To aid worthy students in obtaining an education the Whipple Scholarship and the Bishop Scholarship have been founded, each paying the tuition of one student. This aid, however, will be withdrawn from any student who does not maintain an average grade in all his studies of at least 80 per cent, or who falls below 70 per cent in any study.

Application for scholarships must be made not later than May 31, and must contain an honest statement of the student's financial condition, together with testimonials of good moral character, and of intellectual ability.

Scholarships are assigned for one year only; students desiring to have their scholarships continued must make a new application in the regular form.

### EXPENSES.

The following is the schedule per semester of fees paid by day students:

Required of all:

Tuition.....	\$25.00
Library and Gymnasium fee.....	2.50

Special fees:

Biology.....	2.00
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Physics .....	2.00
Chemistry .....	3.00

## ESTIMATE BY THE YEAR.

## BOYS.

	Lowest.	Moderate.	Liberal
Tuition.....	\$ 50.00	\$ 50.00	\$ 50.00
Library and Gymna- sium fee.....	5.00	5.00	5.00
Room in North Hall	25.00	25.00	25.00
Board.....	75.00	90.00	108.00
Books, Society fees, etc .....	10.00	15.00	20.00
Light.....	5.0	7.00	10.00
Laboratory fees....	.....	4.00	7.00
	<hr/> \$170.00	<hr/> \$196.00	<hr/> \$225.00

## GIRLS.

Tuition.....	50.00	50.00	50.00
Library and Gymna- sium fee.....	5.00	5.00	5.00
Room, board, light, heat, laundry....	225.00	225.00	225.00
Books, society fees, etc.....	10.00	15.00	20.00
Laboratory fees....	.....	4.00	7.00
	<hr/> \$290.00	<hr/> \$299.00	<hr/> \$307.00

Students in Chemistry make a deposit of three dollars each semester for breakage, etc. The balance of the deposit is returned to the student at the end of the course.

Students in the Senior class pay a fee of five dollars to cover the expense of their certificates of graduation.

## SELECTION OF STUDIES.

During the first two years of the regular Academy course the work is all required, but in the Senior year the student may elect Latin, Greek, or German.

To accommodate those who do not wish to prepare for college, a Liberal Arts course is given, studies in which may be selected from those offered in the Academy and Conservatory. In order to secure a certificate of graduation in the Liberal Arts course the student must take at least sixteen hours a week for three school years.

# HOURS OF RECITATION.

	JUNIOR YEAR	MIDDLE YEAR	SENIOR YEAR
8:15	Latin	Algebra	English
9:30	English	Study Hall	Greek
10:30	History	English	German Latin
11:30	Study Hall	Latin	Geometry
1:30	Biology Chemistry		Physics
2:30	Biology		Physics
3:30	Gymnasium Bible—W.	Gymnasium Bible—W.	Gymnasium Bible—W.



## COURSES OF INSTRUCTION.

## BIOLOGY.

JAMES BERTRAM OVERTON.

1—*Botany.*

5 hours

Half of First Semester.

The elementary structure and functions of the various organs and parts of plants; the structure and arrangement of leaves; position and arrangement of leaves in relation to light; arrangement of shoots; relation of arrangement of shoots to habit and growth of plants; relation of roots to soil and moisture; devices for pollination; plant societies; principles of plant distribution. Three recitations and four hours of laboratory work per week.

Text: Coulter, Plant Relations.

*Zoology.*

5 hours

Half of First Semester.

The simplest forms of animal life; the more complex forms of animal life; reproduction and the development of sex; function and structure; the life cycle; the struggle for existence; adaptation; animal communities; symbiosis and degeneration; protective resemblances; geographical distribution. Junior year. Three recitations and four hours of laboratory work per week.

Text: Jordan and Kellogg, Animal Life.

## CHEMISTRY.

JOHN BISHOP TINGLE.

1—*Introductory General Chemistry.*

3 hours

Second Semester.

The work of this course is almost wholly laboratory

in its nature, and is intended as a general introduction to the science.

Physical and chemical changes. States of matter. Elements and compounds. Study of the following elements and of their more important derivatives; oxygen, hydrogen, nitrogen, carbon, fluorine, chlorine, bromine, iodine, sulphur, phosphorus, silicon, baron. The simpler laws of chemical combination. Special attention is given to the subjects of Atmosphere and Water.

Text: Hessler-Smith, Essentials of Chemistry.

### ENGLISH.

JOHN GRIFFITH AMES, JR.

1 and 2—*Rhetoric and Composition.* 5 hours  
Entire year.

Review of Grammar, Rhetoric, composition; drill in reading. Lowell's "Vision of Sir Launfal," Coleridge's "Ancient Mariner," George Eliot's "Silas Marner," Scott's "Ivanhoe."

Text: Scott and Denney, Elementary English Composition.

JANE SHERZER.

3 and 4—*Rhetoric and Literature.* 4 hours  
Entire year.

Rhetoric, composition, drill in reading. Sir Roger de Coverly Papers, Goldsmith's "Vicar of Wakefield," Carlyle's "Essay on Burns," Tennyson's "The Princess."

WILLIAM MATHER LEWIS.

5 and 6—*Literature and Declamation.* 3 hours  
Entire year.

Physical Culture; drill in public speaking; preparation of essays. Shakespeare's "Macbeth," "Merchant of Venice," and "Julius Cæsar," Milton's "Minor Poems," Burke's "Speech on Conciliation," Macaulay's "Essays on Milton and Addison."

### GERMAN.

STELLA LENORE COLE.

Same as College German 1 and 2.

### GREEK.

JOHN MARTIN REDPATH.

Same as College Greek 1 and 2.

### HISTORY.

FREDERICK SMITH HAYDEN.

1—*Greek History.* 3 hours

First Semester.

A history of Greek life and culture from the earliest accounts of the race to its conquest by the Romans.

Text. Botsford, Ancient History.

2—*Roman History.* 3 hours

Second Semester.

The history of Rome from the earliest times to the fall of the Empire.

Text: Botsford, Ancient History.

3—*English History.* 4 hours

First Semester.

A brief history of the English people from the Roman conquest to the present time.

Text: Coman and Kendall, History of England.

4—*American History.*

4 hours

Second Semester.

A brief history of the discovery and colonization of the western continent. United States history from 1775 to the present time.

Text: Channing, Students' History of the United States.

LATIN.

FREDERICK WARREN SANFORD.

1—*Latin Lessons.*

5 hours

First Semester.

A thorough drill in Latin forms and elementary syntax.

Text: Bellum Helveticum.

2—*Caesar.*

5 hours

Second Semester.

Continuation of Course 1. Caesar; Gallic War, Book I, Chapters 1-29. Prose composition based on text.

Text: Bellum Helveticum.

3—*Caesar Continued.*

5 hours

First Semester.

Caesar; Gallic War, Books II, III and IV. Composition and Classical Geography.

Text: Lowe and Ewing's Caesar.

4—*Cicero.*

5 hours

Second Semester.

Six orations. Prose composition. Roman life and customs.

Text: Johnston, Cicero, Selected Orations and Letters.

JOHN MARTIN REDPATH.

5—*Ovid and Vergil.* 5 hours  
First Semester.

Selections from Ovid, fifteen hundred lines. Prosody.  
Aeneid, Book I.

Texts: Gleason, Ovid; Knapp, Aeneid.

6—*Vergil.* 5 hours  
Second Semester.

Aeneid, Books II, III, IV, and VI. Study of  
Roman life and literature in the time of the Empire.

Text: Knapp, Aeneid.

#### MATHEMATICS.

FRED H. H. CALHOUN.

2 and 3—*Algebra.* 5 hours  
Entire year.

Fundamental operations, factoring, highest common factor, lowest common multiple, fractions, simple equations of first degree, inequalities, indeterminate equations, theory of exponents, square root, cube root, special higher<sup>a</sup> roots, radicals including imaginaries, quadratic equations, simultaneous quadratic equations, special form of the higher equations, ratio and proportion, arithmetical and geometrical series, binomial theorem for any rational exponent. Special attention is given to accuracy, rapidity and freedom from working by rule.

Text: Wells, Essentials of Algebra.

FRANK MARION MORRISON.

4 and 5—*Geometry*.

5 hours

Entire year.

Plane, Solid, and Spherical. A careful drill on the fundamental theorems; much original work in proving theorems. Emphasis is laid upon rapidity in thinking generalizations, and freedom from mere acquirement of facts.

Text: Wells, *Essentials of Geometry*.

## PHYSICS.

FRED H. H. CALHOUN.

1—*Elementary Physics*.

5 hours

First Semester.

Properties of matter; mechanics of solids; mechanics of fluids; heat; magnetism and electricity; sound; light. The course is a combination of recitations, problems, and laboratory work. The student keeps a note-book, according to forms given, of seventy-five quantitative experiments performed by himself.

Text: Carhart and Chute, *Elements of Physics*.

## ELOCUTION.

In addition to the regular courses offered in public speaking, students may arrange to take private lessons in voice culture, reading, dramatic expression, impersonation, and oratory. Besides the private work, students in dramatic expression and impersonating will take part in the public presentation of one standard drama during the year, and all advanced pupils will appear in recitals.

## Terms:

Single lessons	-	-	-	-	-	\$ 1.00
Two lessons per week, term of 18 weeks	-					30.00
Two lessons per week, one year	-					55.00
Class of two, per year, (each)	-	-	-			40.00
Class of three or more, per year, (each)	-					30.00

## ART.

## FIRST YEAR.

## First Semester.

Principles of drawing from geometrical objects, ornamental drawing (from casts), details of head (from casts).

## Second Semester.

Study of figures, principles of artistic anatomy, perspective and theory of shadows; a condensed course in the history of Art.

## SECOND YEAR.

## First Semester.

Study of figures and grouping, painting from still life (water color and oil); drawing from nature, perspective, anatomy, principles of composition; history of Art.

## Second Semester.

A large place will be given during this semester to the study of decoration and commercial Art, illustrating, tapestry painting, designs, furniture designs, pyrography (wood and leather), moulding in clay and wax.

## THIRD YEAR.

## First Semester.

Painting from nature, study of portraits from life, composition, study of historic costumes; history of Art.

## Second Semester.

Execution of paintings from original sketches.

Students in the Art Department will be required to



have a knowledge of General History, Mythology, etc.

Readings from standard authors on Art will also be required: Ruskin, Charles Blanc, Ebers, Breton, etc.

Terms:

Private Lessons	-	-	-	-	\$1.00 each
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Five Lessons per Week:

For the month	-	-	-	-	\$ 12.00
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For the quarter year	-	-	-	-	20.00
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For the half year	-	-	-	-	33.00
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For the entire year	-	-	-	-	60.00
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Ten Lessons per Week:

For the month	-	-	-	-	20.00
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For the quarter year	-	-	-	-	53.00
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For the half year	-	-	-	-	60.00
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For the entire year	-	-	-	-	100.00
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THE  
CONSERVATORY  
OF MUSIC

# THE CONSERVATORY.

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## FACULTY.

WALTER HOWE JONES,  
*Professor of Piano, Organ, and Composition.*

MRS. HELEN AYERS BULLARD,  
*Instructor in Piano.*

Mrs. MARGARET KIRK KUHNE,  
*Instructor in Piano and Harmony.*

GRACE ELLIOTT DUDLEY,  
*Instructor in Voice.*

M. WILLY KUHNE,  
*Instructor in Violin and Musical History*

## GENERAL ADMISSION.

Students will be admitted to work in the different departments of the Conservatory at any time, but it is always advisable, if possible, to enter at the beginning of a semester. Work in the Theoretical branches, Harmony, Counterpoint, etc., and in Musical History, being done in classes, can only be taken up at the beginning of a semester. All students are examined on entering by the Director, and assigned to work according to their grades.

## ADVANCED STANDING.

Students who come from other conservatories or from private teachers will be given credit for work done, and may receive such advanced standing as their certificates or the quality of their work will warrant.

## REGISTRATION.

All applications for registration in Conservatory work are to be made to the Director.

## TUITION AND FEES.

All tuition and fees are payable to the Treasurer of the College, in advance if possible, otherwise by special arrangement.

## ATTENDANCE.

All students are expected to be regular and prompt in attendance at lessons and classes; no allowance will be made for lessons missed through fault of the student except in cases of protracted illness.

## REQUIREMENTS FOR GRADUATION.

A Teacher's Certificate will be given to any student who satisfactorily completes the third collegiate year in any of the principal courses, together with Courses 1 and 5 in the Theoretical Department, and who has given one public recital in the Conservatory.

A diploma of graduation will be awarded to any student who satisfactorily completes the entire collegiate course in any of the principal departments, together with Courses 1 and 5 in the Theoretical Department, and who, during the Senior year, has given one public recital from memory.

Courses 2, 3, and 4 in the Theoretical Department are not required for graduation and can only be taken by students who show aptitude for the work. Students who complete these courses, however, will receive special honorable mention upon graduation.

Students for graduation in the Vocal Department must have had sufficient piano work to enable them to play their own accompaniments.

## THE BACHELOR OF MUSIC DEGREE.

Students who complete one of the principal courses in music (piano, organ, voice, or violin), together with the entire theoretical course in music, and who in addition have taken certain literary courses (to be specified) may become candidates for the Degree of Bachelor of Music. The required literary courses are to be taken in the College, and the degree will be conferred by the College, under the same conditions as any of the literary degrees.

## EXPENSES.

## TERMS OF INSTRUCTION.

With the Director:	Semester.	Year.
Two lessons per week	\$55.00	\$100.00
One lesson per week	30.00	55.00
Single lessons (each)	2.00	
With Vocal Teacher and First Assistant:		
Two lessons per week	\$48.50	\$90.00
One lesson per week	25.00	48.50
Single lessons (each)	1.50	
With Violin Teacher and Second Assistants:		
Two lessons per week	\$35.00	\$60.00
One lesson per week	18.50	35.00
Single lessons (each)	1.00	
Harmony, Counterpoint, Composi- tion, etc., in classes of four, two lessons per week	12.50	24.00
Musical History, in classes once per week for the year		10.00
Sight reading, in classes	2.00	4.00

The Conservatory has a number of pianos for practice, which will be rented at reasonable terms to students. Application can be made to the Director.

A schedule of expenses for board, lodging, etc., will be found elsewhere in this Catalogue.

## MISCELLANEOUS INFORMATION.

All candidates for graduation in the Piano Department must take the work at least of the Senior year with the Director.

All Conservatory students are required to take a course in Sight Reading, in classes under the direction of the Vocal Teacher.

The courses in Harmony and Musical History must be taken during the first and second collegiate years of work in the principal courses.

Regular students' recitals will be given throughout the year in connection with the Conservatory work; all students are expected to appear in these recitals whenever requested by the teacher.

Members of the Conservatory Faculty will give public recitals from time to time which all students are expected to attend.

Students in any of the instrumental departments are expected to practice from one and one-half to four hours daily, according to grade; no students are to teach or appear in public performances without the consent and advice of the teacher.

Students in the Vocal Department are expected to practice from one-half to three hours daily as directed.

All students are required to confine themselves strictly to the work assigned by the teacher.

It is planned to carry on different musical organizations and clubs under the auspices of the Conservatory; it is hoped that students of the College, as well as of the Conservatory, who possess musical ability, will avail themselves of these opportunities for musical culture and enjoyment.



## COURSES OF INSTRUCTION.

## PIANO DEPARTMENT.

WALTER HOWE JONES, Professor.

MRS. HELEN AYERS BULLARD, Instructor.

MRS. MARGARET KIRK KUHNE, Instructor.

The full course in this department requires seven years' work, three of which are preparatory.

The preparatory course includes formation and position of fingers, hands, wrists, and arms, properties of touch, principles of technique, thorough drill in scale, chord, and arpeggio playing, and exercises in rhythm, accent, and expression.

Music used: Herz, Scales and Exercises; Loeschhorn, Op. 65 and 66; Lemoine, Op. 37; Heller, Op. 45; Bertini, Op. 29 and 32; Czerny, Op. 299, Books 1 and 2; Bach's Little Preludes; Sonatinas, easier Sonatas, and Compositions by Clementi, Kuhlau, Haydn, Mozart, Beethoven, and modern composers. Mrs. BULLARD and Mrs. KUHNE.

## COLLEGIATE COURSE.

*1—First Year.*

10 hours

Studies in development of technique; Czerny, Op. 299, Books 3 and 4; Czerny, Octave Studies; Cramer, Studies; Bach, Two Voiced Inventions; Haydn, Mozart, and easier Beethoven Sonatas; Mendelssohn, Songs Without Words; smaller compositions of classical and modern composers. Mrs. BULLARD and Mrs. KUHNE.

*2—Second Year.*

14 hours

Daily technique; Czerny, Op. 740 (selections); Kullak's Octave Studies, Book 1; Bach, Preludes and Fugues; Sonatas, Concertos, and Compositions, both classical and modern. Professor JONES, Mrs. BULLARD, and Mrs. KUHNE.

### 3—*Third Year.* 16 hours

Selections; Clementi, Gradus ad Parnassum; Moscheles, Op. 70; Kullak, Octave Studies, Book 2; Bach, Well-Tempered Clavichord; Sonatas and Concertos by Weber, Mendelssohn, Beethoven, etc.; selections from works of Bach, Chopin, Schubert, Schumann, Rubinstein, Liszt, Moszkowski, Scharwenka, and other modern composers. Professor JONES, Mrs. BULLARD, and Mrs. KUHNE.

### 4—*Fourth Year.* 18 hours

Selections; Clementi, Gradus ad Parnassum; Bach, Preludes and Fugues; Chopin, Henselt, and Rubinstein, Etudes; larger works, both solo and ensemble, of the great masters, classical and modern. Professor JONES.

## VOCAL DEPARTMENT.

GRACE ELLIOTT DUDLEY, Instructor.

The preparatory course includes placing of the voice and proper position of the mouth and throat; Randegger's Singing; fifty Concone Studies; simple songs for accent, rythm, and proper pronunciation.

### COLLEGIATE COURSE.

#### 1—*First Year.* 10 hours

Voice production: Randegger's Singing continued; Concone Studies; Songs of Mendelssohn and Schubert, and of good modern composers.

#### 2—*Second Year.* 14 hours

Voice production: Viardot-Garcia's Hour of Study, Book I for technical work; twenty-four Panofka Studies; songs of German, French, and English composers, and simple selections from operas and oratorios.

#### 3—*Third Year.* 16 hours

Voice production: Viardot-Garcia's Hour of Study,

Book 2; Bordogni's Studies for soprano or tenor; Sieber or Bordese for alto or bass; selections from oratorios, and from French, German, and Italian operas; songs from German, French, English, and Italian composers.

4—*Fourth Year.* 18 hours

Lütgen's Opera-Vocalisen; Italian, French, German, English, and American songs; solos and concerted work from the modern as well as standard operas and oratorios.

VIOLIN DEPARTMENT.

M. WILLY KUHNE, Instructor.

The preparatory course includes violin methods by Hermann, Kayser, Sitt, Mazas, etc.; Schradieck's Technical Studies; Etudes by DeBeriot and others; easy solos.

COLLEGIATE COURSE.

1—*First Year.* 10 hours

Etudes by Kreutzer, Mazas, Fiorillo, etc.; Sonatas by Mozart, Handel, Beethoven, and others; Concertos by Viotti, Rode, Kreutzer, DeBeriot.

2—*Second Year.* 14 hours

Etudes by Gavinies, Rode, and Campagnoli; Sonatas by Beethoven, Grieg, etc.; Concertos by Spohr, Bruch, Vieuxtemps, Molique, etc.

3—*Third Year.* 16 hours

Caprices by Paganini; Concertos by Bruch, Mendelssohn, Saint Saens, Joachim; ensemble work.

4—*Fourth Year.* 18 hours

Bach, Sonatas; Concertos by Beethoven, Bruch, Brahms, Tschaikowsky, Dvorak, Saint Saens; ensemble work.

## ORGAN DEPARTMENT.

*Organ Course.*

48 hours

Students desiring to take up the study of the Organ must have completed the first collegiate year's work on the piano in order to have acquired the requisite amount of technical facility. The course for the Organ will then include three years of collegiate work, embracing technical exercises and studies for the correct use of the manuals and pedals; Rink's Organ School, 6 books, Buck's Pedal Phrasing Studies, and the Organ works of Handel, Bach, Mendelssohn, Guilman, Widor, and other German, French, English, and American composers. Special attention will be given to the use of the Organ for church work.

## THEORY.

MRS. KUHNE, Instructor.

*1—Harmony.*

12 hours

Two lessons per week through three semesters.  
Emery's Harmony, with additional exercises.

WALTER HOWE JONES, Professor.

*2—Counterpoint.*

3 hours

Two lessons per week through one semester.  
Richter's Counterpoint.

*3—Fugue.*

3 hours

Two lessons per week through one semester.  
Richter's Fugue.

*4—Musical Analysis.*

Supplementary to Courses 2 and 3.

M. WILLY KUHNE, Instructor.

5—*Musical History.*

2 hours

Once a week through two semesters.

Matthews' History, and collateral readings.

WEEKLY SCHEDULE OF HOURS.

(Bachelor of Music Degree.)

FRESHMAN YEAR.

	First Semester.	Second Semester.
Music.....	5	5
Musical History.....	1	1
Theory .....	4	4
Mathematics.....	4	
English .....	2	6

SOPHOMORE YEAR.

Music .....	7	7
Theory .....	4	3
German or French.....	5	5
English .....		1

JUNIOR YEAR.

Music .....	8	8
Theory .....	3	
Physics.....		5
English .....	2	
German or French.....	3	3

SENIOR YEAR.

Music .....	9	9
History .....	5	5
Electives .....	2	2



# LIST OF STUDENTS



## DEGREES CONFERRED, 1901-1902.

## DOCTOR OF DIVINITY.

Rev. Harris Gregg  
Rev. John N. Mills

Professor George B. Stevens

## DOCTOR OF LAWS.

Judge Richard S. Tuthill

Judge William B. Sanders

## MASTER OF ARTS.

Professor William M. Lewis  
Colonel Edward Prince

Professor Frederick W. Sanford

## BACHELOR OF ARTS.

Lloyd Lackland Adams

Robert Lincoln McNeil

Elisha Bentley Hamilton, Jr.

Emanuel Concie Pires

Wilber Walter Hatfield

Harlan Eugene Read

Selden Spencer Leonard

Paul Wilbur Wemple

## BACHELOR OF PHILOSOPHY.

Leon Littlefield Brockman  
Edgerton Lafayette Crispin

Elbert Hugh Filson

## BACHELOR OF SCIENCE.

William Henry Cocking

Martin Leslie Smith

Ralph Wendling Cooke

Edwin Leroy Stimpson

Elvin David George

James Garfield Tontz

John William McHarry, Jr.

James Gilham Winterbottom

John Ralph Roach

## COMMENCEMENT SPEAKERS.

JUNE, 1902.

Elvin David George

Harlan Eugene Read

Elisha Bentley Hamilton, Jr.

Paul Wilbur Wemple

Selden Spencer Leonard

# LIST OF STUDENTS.

1902-1903.

## THE COLLEGE

### SENIORS.

Ralph Irwin Dunlap	<i>Jacksonville</i>
1025 West State St.	
Homer Ernest Fullenwider	<i>Mechanicsb'rg</i>
19 Crampton	
William George Goebel	<i>Meredosia</i>
23 Crampton	
William Murray Goff	<i>Ashland</i>
21 Crampton	
Abraham R. Gregory, Jr.	<i>Jacksonville</i>
825 South East St.	
Arthur Oliver Lindsay	<i>Decatur</i>
28 Crampton	
William Adams Lippincott	<i>Jacksonville</i>
1120 West College Ave.	
Oswell Laurie McNeil	<i>Berlin</i>
7 Crampton	
Duval S. O'Neil	<i>Arnold</i>
23 Crampton	
George Irving Scott	<i>Virginia</i>
6 Crampton	
Lawrence Elmer Stone	<i>Lane</i>
28 Crampton	
George William Watson	<i>Lynnville</i>
9 Crampton	

Sumner White *Knox City, Mo.*

711 West College St.

Joseph Erastus Winterbottom *Jacksonville*

1326 West State St.

# JUNIORS.

Walter Henry Balke *Jacksonville*

364 West College Ave.

Albert Crum Baxter *Ashland*

814 West College Ave.

Edward Philip Brockhouse *Concord*

19 Crampton

Charles Mosley Eames *Jacksonville*

622 West State St.

Arthur Frederick Ewert *Jacksonville*

331 East State St.

Melville Talbot Kennedy *Jacksonville*

1030 Grove St.

Benjamin Franklin Lane *Riggston*

1026 West College Ave.

Evert Dean Martin *Jacksonville*

500 West Morton Ave.

Bradford Sturtevant *Kushla, Ala.*

252 Park St.

Lawrence Newton Wylder *Jacksonville*

513 North Church St.

# SOPHOMORES.

Wilfred Smith Ayers *Jacksonville*

1052 West State St.

Walter Bellatti *Jacksonville*  
605 West College Ave.

Edward Tanner Brown *Waverly*  
316 Woodland Place

William Barr Brown, Jr. *Jacksonville*  
1106 W. Lafayette Ave.

Clarence Edwin Carter *Jacksonville*  
522 West State St.

Frederick Putman Cowdin *Chapin*  
138 Sandusky St.

Frederick Monroe Duckles *Carlinville*  
10 Crampton

Heye Eagen Eilers *Gillespie*  
5 Crampton

Robert Emmett Harmon *Jacksonville*  
614 South Main St.

Edwin Dronsfield Jackson *Jacksonville*  
832 South Clay Ave.

Warren Case Nixon *Jacksonville*  
1001 West State St.

Joseph Hodge Pires *Jacksonville*  
1074 North Main St.

Lathrop Huntington Ward *Jacksonville*  
1025 West College Ave.

## FRESHMEN.

Bunyan Emil Asplund *Little Indian*  
8 Crampton

Alden Brown *Jacksonville*  
1122 West State St.

James Howard Brown	<i>Jacksonville</i>
138 Sandusky St.	
Charles Arthur Carriel	<i>Jacksonville</i>
1152 West College Ave.	
Roy Ellis Crampton	<i>Jacksonville</i>
304 West Morgan St.	
Harry Struble Freeman	<i>Jacksonville</i>
Institution for the Blind	
Harold Chandler Gay	<i>Jacksonville</i>
135 Webster Ave.	
Herbert Arthur Graves	<i>Neosho, Mo.</i>
873 Grove St.	
Erle Josiah Hurie	<i>Petersburg</i>
236 Park St.	
Wiley Lin Hurie	<i>Petersburg</i>
236 Park St.	
Roy Zinn McKown	<i>Jacksonville</i>
Westminster St.	
Barney E. Miller	<i>Kinderhook</i>
640 South Prairie St.	
Herbert Brooks Sanford	<i>Bunker Hill</i>
10 Crampton	
Ira Eneas Scott	<i>Franklin</i>
1050 West College Ave.	
Joseph Bowers Sinclair	<i>Ashland</i>
1062 West College Ave.	
Frederick Linn Spencer	<i>Jacksonville</i>
John A. Logan Tontz	<i>Highland</i>
17 Crampton	

Ray George Van Gundy	<i>Chapin</i>
25 Crampton	
Jay Earl Wemple	<i>Waverly</i>
1309 Mound Ave.	
Oliver Bliss Williams	<i>Quincy</i>
1025 West College Ave.	

## SPECIAL STUDENTS.

Grace May Barnes	<i>Los Angeles, Cal.</i>
Lockwood Place	
Maud Bittleston	<i>Los Angeles, Cal.</i>
616 West College Ave.	
Clarence Jennings Davis	<i>Barry</i>
830 West College Ave.	
David Abram Graham	<i>Illio polis</i>
22 Crampton	
Edna Hatch	<i>Griggsville</i>
1328 Mound Ave.	
Marshall Paul McDonald	<i>Jacksonville</i>
932 West State St.	
Charles Sidney Nichols	<i>Marshall, Mo.</i>
5 Crampton	
Jessie Larnard Sharpe	<i>Jacksonville</i>
1415 West College Ave.	
Jennie Hathaway Spencer	<i>Jacksonville</i>
Jay Alton Tredick	<i>Chicago</i>
15 Crampton	

## WHIPPLE ACADEMY.

## SENIORS.

Floyd Eugene Boston	<i>Orleans</i>
Elmer L. Cohenour	<i>Pittsfield</i>
William Thomas Harmon	<i>Jacksonville</i>
Charles William Kneeland	<i>Jacksonville</i>
William Edwin Munson	<i>Beardstown</i>
George Julius Orear	<i>Jacksonville</i>
Roswell O. Post, Jr.	<i>Jacksonville</i>
Cole Yates Rowe	<i>Jacksonville</i>
Paul Secrest	<i>Petersburg</i>
William Lester Simpson	<i>Mount Pulaski</i>
Richard Stanley Tuthill, Jr.	<i>Chicago</i>
Thomas Earle Wylder	<i>Jacksonville</i>
Leland E. Wemple	<i>Waverly</i>

## MIDDLE YEAR.

Fletcher Jordan Blackburn	<i>Jacksonville</i>
Alonzo R. Finley	<i>Kinderhook</i>
William Ray Haneline	<i>Sinclair</i>
Charles Cooper Kirk	<i>Mount Vernon, Ohio</i>
George J. Moore	<i>Bentonville, Ark.</i>
Marcy Osborne	<i>Jacksonville</i>
Albert Carlton Shibe	<i>Jacksonville</i>



Frank Barlow Schermerhorn	<i>Jacksonville</i>
George Vierra	<i>Hilo, Hawaii</i>
Franklin Vierra	<i>Hilo, Hawaii</i>
Henry Franklin Welsh	<i>Downs</i>
Edward Williams	<i>Decatur</i>

## JUNIORS.

Warren Case, Jr.	<i>Jacksonville</i>
Glover W. Crum	<i>Easton</i>
Robert H. Covington	<i>Murrayville</i>
Earle Gordon	<i>Lynnville</i>
Carl O. Gordon	<i>Lynnville</i>
Claud A. Grove	<i>Jacksonville</i>
William Hook	<i>Los Angeles, Cal.</i>
Henry Hutchens	<i>Augusta, Ga.</i>
Robert Lester James	<i>Bunker Hill</i>
William Kirby	<i>Jacksonville</i>
Austin Kingsley	<i>Jacksonville</i>
Clifford McCuskey	<i>Tamalco</i>
Richard A. Reynolds	<i>Perry</i>
Richard Rowe	<i>Jacksonville</i>
Arnold Freeman Selby	<i>Golden</i>
Henry Paul Samuell	<i>Jacksonville</i>
Edward W. Schrader	<i>Liberty</i>

Marion R. Sykes	<i>Beverly</i>
Paul Perry Thompson	<i>Jacksonville</i>
Fred Walter	<i>Jacksonville</i>
Frank L. Wilson	<i>Jacksonville</i>

## SPECIAL STUDENTS.

Alden Brown	<i>Jacksonville</i>
Clarence Jennings Davis	<i>Barry</i>
David Abram Graham	<i>Illio polis</i>
Marshall Paul McDonald	<i>Jacksonville</i>
Barney E. Miller	<i>Kinderhook</i>
Frederick L. Spencer	<i>Jacksonville</i>
Ray D. Funk	<i>Jacksonville</i>

The merging of the Jacksonville Female Academy and of the Illinois Conservatory of Music with Illinois College, which will go into effect in the fall of the current year, has made unnecessary the publication of a separate catalogue of the two former institutions. The list of students is therefore given here.

## THE CONSERVATORY.

### PIANOFORTE.

Genevieve Alexander  
Clara Bell Anderson  
Helen Ayers  
Minnie Beazell  
Lois Baptist  
Anna Barker  
La Dora Brooner  
Margaret Brown  
Oleta Brown  
Susan Brown  
Eleanor Capps  
Louise Capps  
Nellie Capps  
Bessie Clemmons  
Eva Cochran  
Gladys Cochran  
Edra Collins  
Mrs. E. E. Crabtree  
Mabel Dawson  
Kathleen Easter  
Leonora Fernandes  
Laura M. Hamilton  
Francis Hatch

Charlotte Halsted  
Sidney Kiel  
Aline Leach  
Helene Markham  
Mary Masters  
Miza McNeil  
Flossie Melton  
Nellie Miller  
Mary Potts  
Edna Pratt  
E. Clyde Roads  
Kathryn Robertson  
Louise Robertson  
Pearl Robinson  
Clara Rogge  
Agnes Rudin  
Mary Russell  
Ruth Scrimger  
Mattie Six  
Ada Slaughter  
Elizabeth Slaughter  
Louise Smith  
Grace Spears  
Katie Taylor

Jeannette Thompson  
Lucille Thompson  
Lizzie Tomhave  
Constance Williams  
Bernice Young

## VIOLIN.

Hazel Brown  
Carrie Dunlap  
Alma Forsyth  
Grace Hickman  
Clara Moore  
Irene Thompson  
Jeannette Thompson

## HARMONY.

Minnie Beazell  
Anna Barker  
Lorena Briggs  
Carrie Dunlap  
Leonora Fernandes  
Helen Markham  
Elizabeth Slaughter  
Charles Stewart  
Constance Williams

## VOCAL.

Helen Ayers  
James Babb  
Minnie Beazell  
Anna Barker  
Ella Bartlett

Mrs. Grace Batley  
Lorena Briggs  
La Dora Brooner  
Nellie Clark  
Abbie May Frost  
Cora Graham  
Laura Hayden  
Grace Hickman  
Nellie Hicks  
Virginia Hockenhull  
John L. Johnson  
Hazel Johnston  
Amada Loose  
Ainslie Moore  
Gladys Osborne  
Sarah Spears  
Emma Wharton  
Ruth Widenham  
Myrtle Wood

## MUSICAL HISTORY.

Clara Bell Anderson  
Minnie Beazell  
Anna Barker  
Susan Brown  
Carrie Dunlap  
Cora Graham  
Aline Leach  
Helene Markham  
Jeannette Thompson  
Constance Williams

## JACKSONVILLE FEMALE ACADEMY.

## LITERARY DEPARTMENT.

## SENIORS.

Bertha Anderson  
Helen Hall  
Agnes John  
Jeanette King  
Sarah King  
Minnie Lutkemeyer  
Fanita Weir

## JUNIORS.

Eva Cochran  
Susie Eames  
Louise Hatch  
Georgia Hutchison  
Ainslie Moore  
Eva Nolsch  
Amy Onken  
Antoinette Pires  
Sarah Shepherd

## SOPHOMORES.

Mabel Mathews  
Lois Owen  
Bernice Young

## FRESHMEN.

Helen Ayers  
Carol Brown  
Bessie Clemmons

Marie Clemmons  
Gladys Cochran  
Anna Divine  
Lucile Harris  
Mary Masters  
Catherine Moore  
Mary Potts  
Louise Robertson  
Clara Rogge  
Agnes Rudin  
Mattie Six  
Grace Spears  
Sara Spears  
Katie Taylor  
Florida Tolbert

## SECOND YEAR

## PREPARATORY.

Margaret Ayers  
Katie Greenleaf  
Lillian Havenhill  
Nellie Miller

## FIRST YEAR

## PREPARATORY.

Gertrude Ayers  
Nellie Headen  
Ruth McLaughlin  
Flossie Melton

## SPECIAL STUDENTS.

Anna Barker  
Grace Burns  
Mabel Dawson  
Charlotte Hayden  
Mary Miller  
Mary Russell  
Lucille Thompson

Marie Clemmons  
Grace Hickman  
Ivy Mason  
Mary Masters  
Amy Onken  
Mary Russell  
Lucille Thompson

## ART.

## ELOCUTION.

Eliza Andras  
La Dora Brooner

Eliza Andras  
Hazel Johnston  
Sara Shepherd





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CATALOGUE  
OF  
ILLINOIS COLLEGE



INCLUDING ITS  
PREPARATORY DEPARTMENT  
CONSERVATORY OF MUSIC  
SCHOOL OF ART

---

JACKSONVILLE, ILLINOIS  
FEBRUARY, 1904

## CORRESPONDENCE

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Correspondence addressed simply to ILLINOIS COLLEGE may be expected to reach the proper department, but in order to avoid delay and possible confusion correspondents are requested to note the following directions:

Communications relating to matters directly in the charge of the Trustees should be addressed to the SECRETARY OF THE TRUSTEES. Correspondence bearing upon the general interests of the College or any of its departments should be addressed to the PRESIDENT. Inquiries concerning conditions of entrance to the College, whether by examination or certificate, concerning undergraduate courses, and other matters pertaining to the standing of students should be addressed to the DEAN. Inquiries concerning entrance to the preparatory department and other matters pertaining to secondary school work should be addressed to the PRINCIPAL OF WHIPPLE ACADEMY. Inquiries concerning Music should be addressed to the DEAN OF THE CONSERVATORY. Young women desiring information concerning rooms and regulations at Academy Hall should address the DEAN OF WOMEN. Requests for the Annual Catalogue and other publications should be addressed to the PRESIDENT'S SECRETARY. Inquiries for information concerning alumni should be sent to the LIBRARIAN.

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*Thomas Burke Clarke*

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# College Calendar, 1904=1905

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1904

- January 5.*            *Tuesday*, 8:00 a. m. College convenes after the Christmas recess.
- January 15.*        *Friday*. Last day for handing in choice of studies for the Second Semester.
- January 28.*        *Thursday*. Day of Prayer for Colleges.
- February 3 to February 5.* *Wednesday to Friday inclusive*. Final Examinations for the First Semester.
- February 5.*        *Friday*. First Semester ends.
- February 6.*        *Saturday*. SECOND SEMESTER BEGINS. Registration for Second Semester, 8:00 a. m. to 12:00 m.
- February 8.*        *Monday*, 8:00 a. m. Lectures and Recitations of Second Semester begin.
- February 12.*      *Friday*. Lincoln's Birthday Commemorative Exercises.
- February 22.*      *Monday*. Washington's Birthday. A holiday.
- February 23.*      *Tuesday*. Last day for handing in orations for Senior Prize Orations.
- March 8.*            *Tuesday*. Whipple Prize Declamations, 8:00 p. m.
- April 1 to April 5.* *Friday morning to Tuesday morning*, 8:00. Easter Recess.
- April 22.*          *Friday*. Senior Oratorical Contest, 8:00 p. m.
- May 6.*             *Friday*. Sophomore Prize Declamations, 8:00 p. m.

- May 30.* *Monday.* Memorial Day. A holiday.
- June 1 to June 3.* *Wednesday to Friday inclusive.* Final Examinations for the Second Semester.
- June 3.* *Friday.* Conservatory Alumnæ Concert,  
8:00 p. m. Society Love Feasts,  
8:00 p. m.
- June 4.* *Saturday.* Conservatory Commencement,  
3:00 p. m. Junior Prize Speaking,  
8:00 p. m.
- June 5.* *Sunday.* Baccalaureate Sermon.
- June 6.* *Monday.* Osage Orange Day. The Senior Promenade.
- June 7.* *Tuesday.* Class Day. Whipple Academy Commencement. Phi Alpha Triennial Reunion.
- June 8.* *Wednesday.* Commencement Day. Annual meeting of the Board of Trustees. College Commencement. Alumni Dinner. President's Reception.

## SUMMER VACATION.

- September 19.* *Monday.* Matriculation begins for new students. Examinations for admission to Freshman Class. First Registration Day.
- September 20.* *Tuesday.* Matriculation concluded at 10 a. m. Last day of Registration for the First Semester.
- September 21.* *Wednesday.* FIRST SEMESTER BEGINS,  
9:00 a. m.
- November 14.* *Monday.* Last day for handing in subjects for Senior Prize Orations.
- November 23 to November 28.* *Wednesday evening to Monday noon.* Thanksgiving Recess.

- December 8.*            *Thursday.* Winter meeting of the Board of Trustees at Chicago.
- December 21, 1904, to January 4, 1905.* *Wednesday evening to Wednesday morning, 8:00.* Christmas Recess.
- 1905
- January 13.*           *Friday.* Last day for handing in choice of studies for the Second Semester.
- January 25.*           *Thursday.* Day of Prayer for Colleges.
- February 1 to February 3.* *Wednesday to Friday inclusive.* Final Examinations for the First Semester.
- February 3.*           *Friday.* First Semester ends.
- February 4.*           *Saturday.* SECOND SEMESTER BEGINS. Registration for Second Semester, 8:00 a. m. to 12:00 m.
- February 6.*           *Monday, 8:00 a. m.* Lectures and Recitations of Second Semester begin.
- February 22.*          *Wednesday.* Washington's Birthday. A holiday.
- February 21.*          *Tuesday.* Last day for handing in orations for Senior Prize Orations.
- March 7.*              *Tuesday.* Whipple Prize Declamations, 8:00 p. m.
- April 21 to April 24.* *Friday morning to Monday noon,* Easter Recess.
- April 14.*              *Friday.* Senior Oratorical Contest, 8:00 p. m.
- May 5.*                *Friday.* Sophomore Prize Declamations, 8:00 p. m.
- May 30.*               *Tuesday.* Memorial Day. A holiday.

- May 31 to June 2. Wednesday to Friday inclusive. Final Examinations for the Second Semester.*
- June 2. Friday. Conservatory Alumnæ Concert, 8:00 p. m. Society Love Feasts, 8:00 p. m.*
- June 3. Saturday. Conservatory Commencement, 3:00 p. m. Junior Prize Speaking, 8:00 p. m.*
- June 4. Sunday. Baccalaureate Sermon.*
- June 5. Monday. Osage Orange Day. The Senior Promenade, 8:00 p. m.*
- June 6. Tuesday. Class Day. Whipple Academy Commencement. Triennial Alumni Reunion.*
- June 7. Wednesday. Commencement Day. Annual meeting of the Board of Trustees. College Commencement. Alumni Dinner. President's Reception.*

# Trustees, Officers and Committees

---

## PRESIDENTS

REV. EDWARD BEECHER, D. D.	-	-	-	1830-1844
REV. JULIAN M. STURTEVANT, D. D., LL. D.	-			1844-1876
REV. EDWARD A. TANNER, D. D.	-	-		1882-1892
JOHN E. BRADLEY, Ph. D., LL. D.	-	-	-	1892-1899
REV. CLIFFORD WEBSTER BARNES, A. M.	-			1900 —

## ACTING PRESIDENTS

RUFUS C. CRAMPTON, LL. D.	-	-	-	-	1876-1882
MILTON E. CHURCHILL, Litt. D.	-	-	-	-	1899-1900

---

## TRUSTEES

CLIFFORD W. BARNES,	-	-	-	-	Jacksonville
<i>Illinois College</i>					
WILLIAM BROWN,	-	-	-	-	Chicago
<i>Grand Central Depot</i>					
HENRY P. CROWELL,	-	-	-	-	Chicago
<i>American Cereal Co.</i>					
BERNARD A. ECKHART,	-	-	-	-	Chicago
<i>Eckhart &amp; Swan Milling Co.</i>					
DAVID R. FORGAN,	-	-	-	-	Chicago
<i>First National Bank</i>					
EGBERT W. GILLETT,	-	-	-	-	Chicago
<i>Gillett Chemical Works</i>					
ALEXANDER A. McCORMICK,	-	-	-	-	Chicago
<i>"Record Herald"</i>					
HOWARD VAN D. SHAW,	-	-	-	-	Chicago
<i>Commercial Bank Building</i>					



CLINTON L. CONKLIN,	- - - -	Springfield
	<i>South Fifth St.</i>	
LOGAN HAY,	- - - -	Springfield
	<i>South Sixth St.</i>	
RICHARD YATES,	- - - -	Springfield
	<i>Governor's Mansion</i>	
JOHN A. AYERS,	- - - -	Jacksonville
	<i>Ayers National Bank</i>	
CHARLES A. BARNES,	- - - -	Jacksonville
	<i>Room 2, Duncan Building</i>	
HARRY M. CAPPS,	- - - -	Jacksonville
	<i>J. Capps &amp; Sons, Ltd.</i>	
MILLARD F. DUNLAP,	- - - -	Jacksonville
	<i>Dunlap, Russel &amp; Co. Bank</i>	
EDWARD P. KIRBY,	- - - -	Jacksonville
	<i>232½ West State St.</i>	
THOMAS J. PITNER,	- - - -	Jacksonville
	<i>215 West College Ave.</i>	
CHARLES S. RANNELLS,	- - - -	Pisgah
FRANK ROBERTSON,	- - - -	Jacksonville
	<i>Jacksonville National Bank</i>	
JULIUS E. STRAWN,	- - - -	Jacksonville
	<i>331 West College Ave.</i>	
OWEN P. THOMPSON,	- - - -	Jacksonville
	<i>Court House</i>	
THOMAS WORTHINGTON,	- - - -	Jacksonville
	<i>West State St.</i>	

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ALUMNI TRUSTEES

WILLIAM J. BRYAN,	- - -	Lincoln, Neb.
	<i>"The Commøner," Lincoln, Neb.</i>	
GEORGE L. MERRILL,	- - - -	Jacksonville
	<i>Journal Building</i>	
JULIAN P. LIPPINCOTT,	- - - -	Jacksonville
	<i>Ayers Bank Building</i>	

## OFFICERS OF THE BOARD

CLIFFORD W. BARNES, *President*.

HARRY M. CAPPS, *Secretary*.

JOHN A. AYERS, *Treasurer*.

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JULIUS E. STRAWN, OWEN P. THOMPSON.

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IDA B. FIELD, Financial Secretary and Secretary to the  
President.

# The Faculties\*

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## COLLEGE AND ACADEMY

CLIFFORD WEBSTER BARNES, President, A. M., B. D.

*Professor of Sociology*

A. B., Yale University, 1889; B. D., *ibid.*, 1892; A. M., University of Chicago, 1893; Fellow in Church History, *ibid.*, 1892-93; Resident worker, Hull House Social Settlement, 1893-94; Pastor, Chicago, 1894-97; Student, Mansfield College, Oxford, England, 1898; Director of Social and Religious work for students, Paris, France, 1898-99; Instructor in Sociology and Director of Social Settlement work, University of Chicago, 1899-1900; President of Illinois College, 1900—.

JOHN GRIFFITH AMES, JR., A. B., Litt. B.

*Professor of English*

A. B., Johns Hopkins University, 1894; Litt. B., Oxford University, England, 1899; Graduate Student, Harvard University, 1894-95; Instructor in English, Kenyon College, Gambier, Ohio, 1895-96; Professor of English, *ibid.*, 1896-97; Assistant Professor of English, Illinois College, 1900-1901; Professor of English, Illinois College, 1901—.

JOHN BISHOP TINGLE, Ph. D.

*Professor of Chemistry*

Owens College, Manchester, 1884-1887; Ph. D., Munich, 1889; Demonstrator in Chemistry, Herriot-Watt College, Edinburgh, 1889-90; Research Assistant in Organic Chemistry, Royal College of Science, London,

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\*The names in each group are arranged in the order of seniority of appointment.

1890; Lecturer in Chemistry, Merchant Venturer's Technical College, Bristol, 1890-92; Lecturer in Chemistry, Gordon's College, Aberdeen, 1892-96; Organic Research Laboratory, University of Pennsylvania, 1897; Instructor in Chemistry, Lewis Institute, Chicago, 1897-1901; Professor of Chemistry, Illinois College, 1901—.

JAMES BERTRAM OVERTON, Ph. D.

*Professor of Biology*

Ph. B., University of Michigan, 1894; Ph. D., University of Chicago, 1901; Assistant Principal of the Public High School, Black River Falls, Wisconsin, 1894-95; Senior Master in Mathematics, St. John's Military Academy, Delafield, Wisconsin, 1895-98; Graduate Student in Botany and Zoology, University of Chicago, 1898-1900; Fellow in Botany, University of Chicago, 1900-1901; Graduate Assistant in Botany, University of Chicago, Summer Quarter, 1901; Professor of Biology, Illinois College, 1901—. Absent on leave, 1903-04, University of Bonn.

FREDERICK SMITH HAYDEN, Dean, A. B., D. D.

*Professor of Philosophy and Biblical Literature*

A. B., Yale University, 1869; B. D., *ibid.*, 1874; D. D., Illinois College, 1891; Lecturer on Theism and Evidences of Christianity, Illinois College, 1899-1902; Professor of Philosophy and Biblical Literature, Illinois College, 1902—; Dean, 1903—.

CHARLES HENRY RAMMELKAMP, Ph. D.

*Professor of History*

Ph. B., Cornell University, 1896; Ph. D., Cornell University, 1900; Fellow in American History, Cornell University, 1896-97; Instructor in American History, *ibid.*, 1897-1900; Student, University of Berlin, 1900-1901; Instructor in History, Leland Stanford Jr.

University, 1901-1902; Assistant Professor of History, Illinois College, 1902-1903; Professor of History, Summer School, University of Missouri, 1903; Professor of History, Illinois College, 1903—.

JANE SHERZER, Dean of Women, Ph. D.

*Professor of English Philology*

Ph. B., University of Michigan, 1893; Ph. D., University of Berlin, Germany, 1902; Principal of High School, Franklin, Ohio, 1882-85; Instructor in English, Oxford College, Oxford, Ohio, 1889-91; Principal, *ibid.*, 1892-94; Principal of Academy for Young Women, Jacksonville, Illinois, 1895-99; Student in Jena, Germany, 1891; Student in Zurich, Switzerland, 1892; Student in Paris, France, 1894; Graduate Student, University of Berlin, 1899-1902; Professor of English, Philology and Dean of Women, Illinois College, 1903—.

FRED HARVEY HALL CALHOUN, Ph. D.

*Assistant Professor of Physics and Geology*

B. S., University of Chicago, 1898; Ph. D., University of Chicago, 1902; Fellow in Geology, University of Chicago, 1900-1902; Assistant in Physiography and Field Geology, University of Chicago, 1899-1902; Instructor in Physiography, University of Chicago; Correspondence-Study Department, 1899—; Assistant Geologist, United States Geological Survey; Assistant Professor of Physics and Geology, Illinois College, 1902—.

JOHN MARTIN REDPATH, A. B.

*Instructor in Greek*

A. B., University of Chicago, 1901; Assistant Instructor, High School, Helena, Mont., 1897-98; Private Tutor, Chicago, 1899-1901; Instructor in Greek, Illinois College, 1902—.

STELLA LENORE COLE, Ph. B.

*Instructor in German and French*

Ph. B., University of Chicago, 1901; Student in Paris and Berlin, 1896-97; Instructor in German, Indianapolis High School, 1897-98; Graduate Student, University of Chicago, 1898-99; Instructor in German and French, Academy for Young Women, Jacksonville, Illinois, 1899-1901; Student, University of Berlin, 1902-03; Instructor in German and French, Illinois College, 1903—.

WILLIAM OTIS BEAL, A. M., M. S.

*Instructor in Mathematics*

B. S., Earlham College, 1896; A. M., Haverford College, 1897; M. S., University of Chicago, 1902; Instructor in Mathematics, Michigan Agricultural College, 1897-1900; Graduate Student, University of Michigan, Summer, 1898; Fellow in Astronomy, University of Chicago, 1900-1902; Instructor in Mathematics, Chicago Manual Training School, 1902-1903; Assistant in Astronomy, University of Chicago, Summer, 1903; Instructor in Mathematics, Illinois College, 1903—.

CARL LYMAN WILLIS, A. M.

*Instructor in Latin and Oratory*

A. B. and B. O., Yankton College, Yankton, South Dakota, 1900; A. M., University of Chicago, 1902; Instructor in Latin, Yankton College, 1900-1901; Graduate Student, University of Chicago, 1901-1903; Charge of Department of Latin, Summer Quarter, Yankton College, 1903—; Instructor in Latin and Oratory, Illinois College, 1903—.

ISABEL SEYMOUR SMITH,, A. B.

*Instructor in Biology*

A. B., Oberlin College, 1901; Assistant in High School, Fremont, Ohio, 1891-95; Assistant in Botany,

Oberlin College, 1897-1902; Graduate Student in Botany, University of Chicago, 1902-1903; Research Student, Marine Biological Station, Woods Holl, Massachusetts, Summer, 1903; Instructor in Biology, Illinois College, 1903—.

FRANK PARSONS NORBURY, A. M., M. D.

*Lecturer in Psycho-Physics*

M. D., Long Island College Hospital, 1888; A. M., Illinois College, 1903; Resident Physician, Pennsylvania Institution for Feeble Minded Children, 1888; Assistant Physician, Illinois Central Hospital for the Insane, 1888-93; Lecturer on Nervous and Mental Diseases, Keokuk Medical College, 1893; Professor of Nervous and Mental Diseases, St. Louis College of Physicians and Surgeons, from 1894; Lecturer on Cranio-Cerebral Anatomy and Surgery in Woman's Medical College, St. Louis, 1894; Associate Editor of the Medical Fortnightly of St. Louis; Lecturer on Psycho-Physics, Illinois College, 1894-1902; Lecturer on Psycho-Physics, 1903—.

RICHARD OWEN STOOPS, A. B.

*Instructor and Principal of Whipple Academy*

A. B., Lake Forest University, 1897; Principal of High School, Libertyville, Illinois, 1897-99; Superintendent of Public Schools, Elmhurst, Illinois, 1899-1903; Principal of Whipple Academy, 1903—.

ELSIE EVELYN COOPER

*Instructor in Whipple Academy*

Graduate Michigan State Normal College, 1895; Principal of High School, Jonesville, Michigan, 1895-1900; Instructor in Latin, Michigan Normal College, 1900-1901; Student, University of Michigan, 1901; Principal of High School, Rockland, Michigan, 1902-1903; Instructor in Whipple Academy, 1903—.



ADA ROODHOUSE, B. L.

*Assistant in English*

B. L., Oxford College, Oxford Ohio, 1891; Instructor in English, *ibid.*, 1891-93; Student, University of Chicago, 1895-98; Instructor in English, Brooks School, Chicago, 1898-1900; Student, Colorado College, Colorado Springs, Colorado, 1902-1903; Instructor in English, Illinois College, 1903—.

HARRIET R. HURD, Ph. B.

*Librarian*

Ph. B., Blackburn University, 1880; Graduate Student, University of Wisconsin, 1901; Instructor in History, Jacksonville Female Academy, 1901-1903; Librarian, Illinois College, 1903—.

MAY S. McCULLY

*Director of Physical Culture for Women*

Boston Normal School of Gymnastics, 1902; Student, Lake Erie College, 1899-1900; Practical Work in Corrective Gymnastics, Children's Hospital, Boston, 1901; Instructor in Gymnastics and Athletics, Dayton, Ohio, 1902; Instructor in Gymnastics and Athletics, Illinois State School for the Deaf, 1902-1904; Private Classes, 1902-1904; Illinois College, 1903—.

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## CONSERVATORY OF MUSIC

LOUIS GERARD STURM

*Professor of Piano, Organ and Theory*

Graduate Cleveland Conservatory of Music, 1888; Teacher, *ibid.*, 1888-96; Graduate Sondershauser (Royal Conservatory), 1897; Post Graduate, *ibid.*, 1897-98; Leipzig University (History of Art), 1898-99; Studied with Royal Professor James Kwast (Hoch

Conservatory), 1899-1901; Assistant to same, 1899-1901; Private Class in Leipzig, 1901-1902; Director of Conservatory, Illinois College, 1903——.

MRS. HELEN AYERS BULLARD

*Instructor in Piano*

Studied Piano with Nicode in Dresden, 1887-88; with Perabo, Boston, 1891; studied Organ with Hoeppner in Dresden, 1887-88; with Walter Hall in London, 1890; Instructor in Illinois Conservatory, 1890——.

MRS. MARGERET KIRK KUHNE

*Instructor in Piano and Harmony*

Graduate Illinois Conservatory, 1892; Post Graduate, *ibid.*, 1892-93; Graduate Chicago Conservatory, 1896-97; special pupil of Leopold Godowsky in Piano; Frederick Grant Gleason in Harmony, Counterpoint, Composition and Musical History; H. L. Walker in Voice; Teacher in Illinois Conservatory, 1897-99; (with advanced work), 1902-1903.

GRACE ELLIOTT DUDLEY

*Instructor in Voice*

Studied in American Conservatory of Music, Chicago, 1896-1901; with Noyes B. Miner and Karleton Hogan, Voice; Gertrude Hogan Murdough, Piano; and Adolph Weidig, Harmony and Composition; Medalist in Academic Department, 1896, and in Collegiate Department, 1898; Taught in Chicago, 1899-1901; Instructor in Illinois Conservatory, 1901——.

MME. ELISABETH ZUR RHANEK-STURM

*Instructor in Voice*

Studied Piano with Stade (Altenburg); Voice with Burchers (Leipzig), 1892-96; with Graff (Sondershaus-

en), 1896-99, (graduate); Stockhausen, Frankfort o. M., 1899-1901; Private Classes (Leipzig and Frankfort o. M.), 1899-1902; Instructor in Voice, Illinois College, 1903——.

#### MADELEINE WHITTIER PETIT

##### *Instructor in Violin and Theory*

Studied Violin at Vassar, 1899-90; with Emanuel Wirth, in Berlin, 1891-93; Harmony and Counterpoint with Mr. O. B. Boise, in Berlin, 1891-93; Violin with Geraldine Morgan, in New York, 1901-1903; Taught privately in Brooklyn, 1896-1903; Instructor in Violin, Illinois College, 1903——.

#### MAMIE ALBERTA LAROCK

##### *Assistant in Piano*

Kansas State University (Carl A. Preyer), 1902; Studied Piano, Theory and History of Music with Prof. L. G. Sturm, 1902-1903; Taught privately, 1900-1903; Assistant in Piano, Illinois Conservatory, 1903——.

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### SCHOOL OF ART

#### E. LAURA RIPLEY

##### *Instructor in Drawing and Applied Art*

Student of Art Department, Rockford College, 1895-96; Chicago Art Institute, 1896-98; Pratt Institute, Brooklyn, New York City, 1901-1903; Pupil of Arthur W. Dow, 1902-1903; Superintendent of Drawing, Public Schools of Rushville, Indiana, 1898-1901; Instructor in New York City Vacation Schools, Summer of 1902.



## **General Information**

## HISTORY AND ORGANIZATION

Illinois College, the first institution in the history of the state to graduate a collegiate class, was founded in 1829 through the happy combination of two independent forces. One force, inspired by the missionary zeal of Rev. John M. Ellis of the Presbyterian church, was composed largely of residents of Jacksonville who were eager to give the youth of their state a liberal education. The other, an eastern organization known as the "Yale Band," consisted of seven men from Yale College who had pledged themselves to the cause of Christian education in the Home Mission fields of the growing West.

As early as 1827 an attempt had been made to establish a college at some point within five miles of Jacksonville; in 1828 the outline of a plan was prepared in which certain prominent citizens of Morgan, Greene, Bond, Montgomery, Sangamon, and Madison counties agreed that if proper support were given, they would do everything possible "to build an institution worthy the patronage of an enlightened and free people, and to secure the accomplishment of our best wishes for the education of our youth, the hope and glory of the land." In 1829 the "Yale Band," composed of Theron Baldwin, John F. Brooks, Mason Grosvenor, Elisha Jenney, William Kirby, Julian M. Sturtevant and Asa Turner, brought with them to the West not only Christian zeal and cultivated talents, but also contributions made by friends in the East amounting to \$10,000, with which to start the enterprise.

Before the close of 1829 a complete organization of

Illinois College had been perfected; Beecher Hall, the oldest college building in the state, had been erected, and the first instructor, Julian M. Sturtevant, had entered upon his duties. In December, 1830, Rev. Edward Beecher, himself a graduate of Yale and an elder brother of Henry Ward Beecher, was called to the Presidency. Feeling deeply the great possibilities of the work, he gave up his large church on Boston Common, and for fifteen years did splendid service in developing the resources and in strengthening the foundations of the new institution.

A strong prejudice against "Yankees," which then existed in Illinois, together with fear of a theological bias in education, made it impossible at first to obtain a charter from the Legislature; it was not till 1835 that the College succeeded, by means of an "omnibus bill," in gaining legal recognition. In this year the first class was graduated with Richard Yates, well known as the War Governor of Illinois and afterward as United States senator, among its members.

In 1844 Dr. Beecher retired from the Presidency and was succeeded by Dr. Julian M. Sturtevant, whose memorable term of office continued thirty-two years. Prof. Rufus C. Crampton filled the position of Acting President from 1876 to 1882, when Rev. Edward A. Tanner was elected President, holding the office until his death in 1892. His successor was Dr. John E. Bradley, who resigned January, 1900, after eight years of service. Prof. M. E. Churchill performed the duties of Acting President until June, 1900, when Rev. Clifford W. Barnes was elected President.



On January first, 1903, the Jacksonville Female Academy, a Presbyterian school founded in 1830, and the Illinois Conservatory of Music, founded in 1871, were merged with Illinois College, it being agreed that the College and its preparatory department should become co-educational and that a majority of its Board of Trustees should be Presbyterian.

The general government and administration of the institution are vested in the Board of Trustees. The immediate direction of the College work is vested in the Faculty, who are empowered to determine the requirements for admission to the College, the standard of excellence in the several classes and the subjects and the methods of study. They also have the power to make such rules, subject to the judgment of the Trustees, as may be deemed best for the guidance and welfare of the students.

It is the aim of Illinois College to extend to young men and young women the benefits of a liberal education of a very high standard in the midst of a wholesome Christian atmosphere. The courses of instruction are so arranged as to give the best preparation for professional study and for active life, and at the same time to afford the broadest general culture. The instructors are specialists in their various departments, and the class rooms and laboratories are supplied with good appliances for illustration and experiment. The wide range of elective studies enables students to carry their work in any chosen department to a high degree of perfection, while the system of major subjects prevents wasteful scattering of efforts.

## LOCATION AND SURROUNDINGS

Jacksonville, with a population of 16,000, is one of the oldest and most beautiful towns in Illinois. It is located about 200 miles south-west of Chicago and 30 miles west of Springfield, at the intersection of the Chicago and Alton, the Wabash, the Chicago, Peoria and St. Louis, and the Jacksonville and St. Louis railroads. Its preeminence as an educational center in early days led many cultured families to make their homes in its neighborhood; in these later years the development of colleges and seminaries has given the place a distinct air of refinement. Its streets are well paved, lighted by electricity, and everywhere lined by arching elms. Its healthful climate and high moral tone render it a most favorable location for a Christian college.

The College campus occupies a partially wooded tract of land, some twenty acres in size, beautifully located on an elevation, known as College Hill, about one hundred feet above the center of the city, and in the midst of its finest residences.

## BUILDINGS AND EQUIPMENTS

There are now ten buildings which go to make up the College plant, and among these may be mentioned:

### JONES MEMORIAL HALL

In 1896 Dr. Hiram K. Jones, of Jacksonville, presented to the College in memory of his wife, Elizabeth Orr Jones, the Jones Memorial Hall. This hall, beautifully constructed of brick and terracotta, and fitted in accordance with the most modern methods of lighting, of heating, and of ventilating, contains the College

Chapel, the Library, the offices of the President, the Dean, and the President's Secretary, a number of recitation rooms, and a ladies' waiting room.

#### STURTEVANT HALL

In 1852, immediately after all buildings of the College except Beecher Hall had been burned, the Trustees set about laying plans for a new building, that should contain a number of recitation rooms and a temporary chapel. This building was completed in 1857, when it received its name in honor of Dr. Sturtevant. Recently it has been thoroughly renovated, and now contains the Chemical and the Biological laboratories, with recitation rooms.

#### BEECHER HALL

The first building of the College, built in 1829, still stands. It is now occupied exclusively by the halls and libraries of the student literary societies for men, Phi Alpha, Sigma Pi, and Philologian, and by the College Y. M. C. A.

#### THE GYMNASIUM

This is a large brick building built in 1891, giving students every opportunity for physical culture. The lower floor contains bath-rooms, with tub and shower baths, a locker-room and dressing-room for men, and a cage for indoor base-ball practice, hurdling, pole-vaulting, etc. The second floor contains the large exercise hall, 86 by 40, and about 36 feet high, which is fitted with all kinds of physical apparatus. The dressing rooms for women are on this floor.

## WHIPPLE HALL

This building is occupied by the Preparatory Department, for which it was built in 1882. Besides a large study-room, common to all students, it contains recitation rooms, a waiting room for girls, and the office of the Principal.

## COLLEGE HALL

This boarding hall for young men contains two good sized dining rooms, lighted with electricity, and is equipped so as to accommodate comfortably all the students who room in Crampton Hall.

## CRAMPTON HALL

This is a large, three-story, brick building, erected in 1873 as a dormitory for students and instructors, and located in the midst of the campus. It has just been remodelled, a new steam heating plant introduced, hard floors laid throughout the building, and bath-rooms placed in both the north and south hall, with hot and cold water, stationary tubs, closets, wash stands, and all modern conveniences. The rooms for the most part are in suites of two, consisting of a bed-room eight by twelve and a study fifteen feet square. The few single rooms are unusually large and well lighted. It is intended that the rooms in Crampton Hall shall be occupied for the most part by two students. These rooms are cared for every day by a janitor, without extra charge, and the College keeps them in perfect repair as regards painting, papering, and the like. Students are expected to buy their own furniture, although the Col-

lege has some second-hand furniture which it will rent at a moderate rate. The building is lighted throughout by gas, and each room is charged for the amount it burns, the amount being measured by individual meters. There are instructors rooming in each hall whose especial duty it is to see that the students keep regular hours and observe gentlemanly deportment at all times. By reason of its location, its modern improvements, and the strict and constant supervision it has, Crampton Hall affords one of the best homes possible for young men during their student life. Rooms may be reserved until registration day, providing a deposit of \$5 be made. This may apply later on the rent, but will be forfeited if the room is not taken. (See also page 50, "Tuition, Fees, and other fixed charges.")

#### ACADEMY HALL

This building, with its beautiful grounds shaded by large elm trees, is located a few blocks east of the College and furnishes an exceptionally good home for women students. The original cost of the building was over \$75,000 and there have recently been added improvements to the amount of \$15,000. It is lighted by gas and electricity, heated with steam, and has all the modern sanitary improvements which make for comfort and safety. The students rooms are completely furnished with the exception of such linen and bed clothing as one usually desires to bring from home. Rooms may be reserved until registration day, providing a deposit of \$10 be made. This may apply later on the term bill, but will be forfeited if the room is not taken. The majority of rooms are intended for two students,

but it is usually possible to secure a room alone by the additional payment of \$10 per semester.

A library of one thousand volumes is maintained at Academy Hall for the use of students residing there, and the Carnegie Library, containing about fifteen thousand volumes, is but two blocks distant. The literary societies for women, Philomathean and Gamma Pi Kappa, and the Y. W. C. A. have their rooms in this building. The Conservatory of Music is also located here.

The advantages of living in Academy Hall are many and positive over those afforded by boarding houses, or even private families in the city. The Dean of Women with a number of experienced teachers reside in the Hall and become directly responsible for the conduct and habits of the students. The systematic use of time is secured; absence, irregularities, and exposure to health are avoided; habits of order, neatness, and punctuality are cultivated. And living with others in a refined home gives a breadth and polish that a young woman can scarcely acquire elsewhere.

Girls from a distance may board in the city only in such places as are approved by the Dean of Women, who should be consulted before permanent arrangements are made. Those desiring rooms in Academy Hall should make an early application and send for a circular of information in reference to outfit and regulations. (See also page 50, "Tuition, Fees, and other fixed charges.")

## LIBRARIES

The working value of the College Library has been greatly increased by its thorough reorganization and the



introduction of the Dewey system of classification, with complete card catalogue. The collection of books, taken as a whole, is large and well selected, and in several departments it is very valuable and complete. The reading room adjoining the library is supplied with a large and representative assortment of papers and periodicals. The library is open from 8 a. m. to 4 p. m. for reference work or for drawing books. The Librarian will gladly assist students in the choice of books to be read in connection with their studies. There are at present in the College and Society Libraries about 16,000 volumes.

Students have access also to the Jacksonville Public Library, for which an expensive and well appointed building has recently been erected, the gift of Mr. Andrew Carnegie.

## LABORATORIES

### THE BIOLOGICAL LABORATORY

The Department of Biology occupies the greater portion of the main floor of Sturtevant Hall. The rooms are all well lighted, well ventilated, and provided with gas and water. The laboratory is fitted with cases and operating tables, has an abundant supply of materials and instruments—microscopes, microtomes, paraffin baths, ovens, chemicals, a complete set of stains for use in Histology, etc. In addition it has equipment for work in Plant Physiology, with a window conservatory, collections of Zoological and of Botanical specimens, a very valuable set of microscopical slides, a complete set of Zoological charts, and a small Biological library.



## THE CHEMICAL LABORATORY

During the year 1901-02 a thoroughly modern Chemical Laboratory was installed in roomy quarters, where the best of ventilation is readily secured. Stone-top benches, piped with water and gas, and fitted with individual lockers, have been provided. The plumbing in all fixtures and connections is as perfect as science can make it. For experiments in which noxious gases are set free, six large hoods with forced draughts have been built. Besides supplies of chemicals and of apparatus, ample for all courses offered in the department, the laboratory has a valuable collection of technical products, generously given, in illustration of representative industries.

## THE PHYSICAL LABORATORY

In North Crampton Hall the Department of Physics has a large laboratory for general experiments, and several smaller rooms for special purposes. These rooms have all necessary conveniences—gas and electricity, sinks with running water, etc. The equipment of apparatus in the laboratories has been very carefully selected. Additions are made from time to time, as improvements in instruments are made, and the wants of advanced students increase.

## PHYSICAL CULTURE

## YOUNG MEN

Systematic physical training is provided for all students in the College and Academy, and is required of all below the Junior year. Before entering upon this training each student is given an examination by the

Director of Physical Culture, which forms a basis for special advice and prescribed work.

From January until April exercise is required in the Gymnasium five days in the week, most of the instruction being given in classes. The work consists of light gymnastics with Indian clubs, dumb bells, wands, and pulley weights. Advanced classes are given work on the horizontal and parallel bars and on the horse.

In addition to the work in the Gymnasium, every facility is given for participation in out-door sports. The Athletic Field, which occupies the north-west corner of the campus, is one of the best in the state, having been laid out by a skilled engineer, graded to a perfect level, and carefully drained. It contains a running track, base-ball diamond, and foot-ball field. During the winter months cross-country runs are kept up.

The ordinary drill work, as well as the training of teams for inter-collegiate contests, is under the direction of a competent instructor.

The general management of athletic affairs is vested in the Board of Control of the Athletic Association, consisting of representatives from the alumni, Faculty and students.

#### YOUNG WOMEN

A thoroughly competent woman instructor gives regular drill in physical culture, using the Swedish system of gymnastics, and by means of special work, based on individual needs, attempts to overcome any weakness that may exist. A system of most careful measurements has been introduced, which makes it possible to correctly estimate the development which takes place

from year to year. Basket-ball and tennis are practiced on the grounds which surround Academy Hall.

At special hours during the week the young women have the entire use of the College Gymnasium, and at other times they are free to use a new and well appointed Gymnasium which has been fitted up in Academy Hall.

### LITERARY SOCIETIES

Among the most attractive and valuable features of student life in Illinois College are the Literary Societies. These not only have the enthusiastic support of their members, but are heartily endorsed by the Faculty as useful adjuncts to the regular department of instruction. They are conducted with ability, dignity and strict attention to the purposes of their organization, which are to furnish thorough training in debate, in expression of thought, and in parliamentary usages. Regular attendance and the prompt performance of duties are secured to a much greater degree than is usual in such organizations. The cost of membership is slight, as the dues vary from one to two dollars a year. The men's Societies meet in their own rooms in Beecher Hall, the women's Societies have their rooms at Academy Hall.

### RELIGIOUS LIFE

Every morning immediately after the first recitation a brief religious service is held in the College Chapel, at which all students are required to be present. It is the aim of the College to maintain the high Christian standard of its missionary founders, and to develop

in the students the noblest type of Christian manhood.

Students are desired and encouraged to attend divine worship on Sunday, and the churches of the city are most cordial in their attitude toward the student body.

The Illinois College Young Men's Christian Association has long been an efficient and useful factor in student life. Its weekly exercises consist of a general meeting for prayer and conference Sunday afternoon, a mid-week prayer meeting, three classes for Bible study, and a class for the study of missions. An employment bureau for the benefit of those who need assistance is a valuable feature of the Association's work.

A branch of the Young Woman's Christian Association has now been formed in the College, with regular meetings at Academy Hall, and a large and energetic membership.

# **The College**

# The College

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## FACULTY

CLIFFORD WEBSTER BARNES, President  
*Professor of Sociology*

JOHN GRIFFITH AMES, JR.  
*Professor of English*

JOHN BISHOP TINGLE  
*Professor of Chemistry*

JAMES BERTRAM OVERTON  
*Professor of Biology*

FREDERICK SMITH HAYDEN, Dean  
*Professor of Philosophy and Biblical Literature*

CHARLES HENRY RAMMELKAMP  
*Professor of History*

JANE SHERZER, Dean of Women  
*Professor of English Philology*

FRED HARVEY HALL CALHOUN  
*Assistant Professor of Physics and Geology*

JOHN MARTIN REDPATH  
*Instructor in Greek*

STELLA LENORE COLE  
*Instructor in German and French*

WILLIAM OTIS BEAL  
*Instructor in Mathematics*

CARL LYMAN WILLIS  
*Instructor in Latin and Oratory*

ISABEL SEYMOUR SMITH  
*Instructor in Biology*

FRANK PARSONS NORBURY  
*Lecturer in Psycho-Physics*



## ADMISSION TO THE COLLEGE

All candidates for admission to College must offer satisfactory testimonials of good moral character. Students coming from other colleges must present certificates of honorable dismissal.

## ADMISSION BY EXAMINATION

Candidates for admission to the Freshman class will be examined on twelve units of preparatory work. A unit is the amount of work usually accomplished in a subject by one daily recitation during one school year. In every case, however, the time assigned is simply for convenience and the work outlined must be fully completed whether the time taken be more or less than that in the estimate.

Examinations for admission to all the College courses are held twice in the year; in June, Thursday and Friday following Commencement; in September, Monday and Tuesday preceding the opening of the first semester. If so desired, a part of the examinations may be taken in June and part in September.

The subjects which must be offered for admission and the number of units in each are:

English	-	-	-	-	2 units
Language (other than English)					3 units*
Mathematics	-	-	-	-	2 units
History	-	-	-	-	1 unit
Laboratory Science			-	-	1 unit
Elective	-	-	-	-	3 units

\*At least two of these must be in the same language.

The elective units may be taken from the following:

Latin	-	-	-	2, 3, or 4 units
Greek	-	-	-	1 or 2 units
German	-	-	-	1 or 2 units
French	-	-	-	1 or 2 units
General Biology	-	-	-	1 unit
History	-	-	-	1 unit
Botany	-	-	-	1 unit
Zoology	-	-	-	1 unit
Physiology	-	-	-	1 unit
Geology	-	-	-	1 unit
Physiography	-	-	-	1 unit
Chemistry	-	-	-	1 unit
Physics	-	-	-	1 unit
Solid and Spherical Geometry				1 unit

Students who intend to study Latin in College must offer at least three units of Preparatory Latin.

No candidate will be admitted to College as a regular student who is conditioned in more than two entrance units. All conditions must be removed before the end of the Sophomore year.

The following statements indicate the ground expected to be covered in the study of the various subjects accepted for admission:

ENGLISH—*Composition and Rhetoric.* English Grammar, with special attention to the correction and analysis of sentences; Whitney, Lockwood, or an equivalent. In Rhetoric and Composition, any High School Rhetoric such as Hill, or Herrick and Damon will be sufficient. Each candidate will be expected to write a

short theme on some subject chosen from the books mentioned below. The treatment of the topic is designed to test the candidate's ability to express himself simply, clearly, and accurately. No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, or division into paragraphs. 1 unit

*Literature.* (a) A careful knowledge of the following works, or their equivalent. The examination will be upon subject matter, form and structure. Shakespeare's *Macbeth*; Milton's *Comus*, *Lycidas*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*. 1 unit

(b) A general knowledge of the subject matter of the Sir Roger De Coverly Papers in the *Spectator*; Pope's *Iliad*, Books I, VI, XXII, and XXIV; Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *Last of the Mohicans*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*. 1 unit

Attention is called to the fact that the right is reserved to regard all examination papers, upon whatever subject, as part of the English examination.

MATHEMATICS—*Algebra*. Fundamental operations, factoring, highest common factor, lowest common multiple, fractions, simple equations of the first degree, inequalities, indeterminate equations, theory of exponents, square roots, radicals, including imaginaries, quadratic equations, special forms of higher equations, ratio and

proportion, arithmetical and geometrical series and binomial theorem for any rational exponent. 1 unit

Accuracy, rapidity, and freedom from working by rule are desired.

*Geometry.* Plane geometry. A thorough understanding of the fundamental theorems, ability to solve and prove original exercises and theorems, and accuracy and acuteness in thinking rather than mere geometrical facts are desired. 1 unit

FOREIGN LANGUAGES—*Latin.* (a) A standard beginner's book in Latin, and four books of Cæsar; Latin composition. 2 units

(b) Six orations of Cicero; Latin composition. 1 unit

(c) Six books of Virgil's *Æneid*. 1 unit

*Greek.* (a) White's First Greek Book, or equivalent. 1 unit

(b) Xenophon's *Anabasis*, Books I, II, and III; Greek prose composition. 1 unit

*German.* (a) Careful drill in pronunciation. Rudiments of grammar, including declension of the articles, adjectives, pronouns, and nouns, the inflection of weak verbs and of the more common strong and irregular verbs. Abundant exercises designed to fix in mind the grammatical forms and to cultivate readiness in expression. Between one and two hundred pages of graduated text, chiefly prose. 1 unit

(b) Thorough drill in composition. Free reproduction. Between three and four hundred pages of moderately difficult prose and poetry. 1 unit

*French.* (a) Essentials of French Grammar as far as contained in Fraser and Squair's French Grammar, or its equivalent. 1 unit

(b) Careful reading in French authors of not less than two hundred duodecimo pages. Special emphasis will be placed on correct pronunciation and the mastery of irregular verbs. 1 unit

**HISTORY—*Ancient History.*** Short introductory study of the Oriental nations; Greek history to the death of Alexander; Roman history and Early Mediæval history to the death of Charles the Great. Botsford's History of Greece and Allen's Short History of the Roman people, or equivalents, with supplementary reading. 1 unit

*English and American History.* English history with due reference to social and political development and American history with the elements of Civil Government. Coman and Kendall's History of England and McLaughlin's History of the American Nation, or equivalents, with supplementary reading. 1 unit

*Mediaeval and Modern History.* European history from the death of Charles the Great to the Franco-German war of 1870. Myer's Mediaeval and Modern History, or equivalents, with supplementary reading. 1 unit

Any of these three divisions may be offered as the unit in History required of all candidates for admission.

**BIOLOGY—*General Biology.*** One year's study of typical animals and plants by the laboratory method, covering the facts of morphology and physiology. This requirement may be met by a course such as is laid down

in Jordan and Kellogg's Animal Life and Coulter's Plant Relations. Candidates for admission must submit laboratory note books. 1 unit

*Botany.* A year's work may be offered in Botany. The work should cover the ground of Coulter's Plant Structures and Plant Relations, or equivalent texts. 1 unit

*Zoology.* A year's work in Zoology may be offered covering the ground of Pratt's Invertebrate Zoology, or equivalent text, and Jordan's Animal Life. Accurate notes and drawings should be made by the student. 1 unit

*Physiology.* A year's work based on the standard texts, as Overton's, Martin's, or equivalent. Experiments should be performed and a laboratory note-book kept, as a feature of the work. 1 unit

**GEOLOGY.** The student should have a general knowledge of the structure of the earth, the agencies which modify the surface, and the development of life through the geologic ages. He should be able to distinguish between the different classes of rocks, and should have some knowledge of field methods. A year's work based upon such a text as Tarr's Geology is sufficient to meet the requirements. 1 unit

**CHEMISTRY.** Acquaintance by laboratory work with the properties of substances common to Chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on relations expressed by formulas and equations; understanding of and ability to use correctly the ordinary terms of Descriptive Chem-



istry. The laboratory note-book must be presented at the time of examination. 1 unit

PHYSICS. The elements of Physics as presented in such text books as Gage's, or Carhart and Chute's Elements of Physics. The candidate must have had laboratory practice equivalent to that described in the laboratory text-book of Chute. As proof of such work the candidate must submit a laboratory note-book.

1 unit

PHYSIOGRAPHY. The student should be familiar with the general relations of the earth to the other members of the solar system, with the physiographic processes that take place in the atmosphere and in the ocean, and with the history of the land forms. A year's work based upon such texts as Davis's or Tarr's will meet the requirements.

1 unit

#### ADMISSION BY CERTIFICATE

Under certain conditions specified below certificates of preparatory schools may be accepted in place of examination for admission. The privilege of sending students by certificates may be granted to a school which requests it, provided the Faculty has such an acquaintance with the work of the school as will warrant granting the request.

A certificate must be made out on a blank furnished by the College in accordance with instructions contained therein. It must contain an explicit statement of the work done by the candidate and the time devoted to it. If the work covered by the certificate is materially less than the amount required for admission, or if the time devoted to a given subject is inade-



quate, the certificate will not be accepted for the subject in which the deficiency occurs, but it will remain valid for the other subjects.

#### ADVANCED STANDING

Students who come from other colleges of recognized rank may receive such advanced standing as their certificates from these institutions may warrant. Such certificates must contain definite statements of the amount and character of work done, preparatory and collegiate. If these credentials are satisfactory the student will be given a corresponding amount of credit on the College records.

#### MATRICULATION

All candidates for admission must present themselves before a committee of the Faculty in the College Library at the time assigned for Matriculation in the calendar (page 10). Those presenting satisfactory certificates from secondary schools will be granted matriculation cards without examination. Those without satisfactory certificates will have assigned them the subjects in which they are to be examined, and the place and time of such examination. Students must sign their matriculation cards and have them indorsed by the Dean before they can register.

#### REGISTRATION

Registration takes place each semester in the Dean's office, and at the special time assigned to it in the calendar (page 10). Registration at any other time involves an additional fee of two dollars, and if long delayed may debar a student for that semester. In reg-

istering each student leaves with the Dean his name and College address, and his choice of studies for the current semester, and at the same time settles with the Treasurer at the Dean's office for his tuition, fees and other fixed charges.

## TUITION, FEES AND OTHER FIXED CHARGES.

These regular semester accounts are payable in advance, and at the time and place specified under "Registration." There are no exceptions to this rule, and students will not be fully registered nor admitted to class-rooms until a satisfactory settlement has been made with the Treasurer.

The following is a schedule of the fixed charges for each semester:

Tuition, for all students.....	\$ 25.00
Library and Gymnasium fee, for all students.....	2.50
Laboratory fee, for students in Physics.....	2.50
Breakage deposit, for students in Physics.....	2.00
Laboratory fee, for students in Biology.....	5.00
Breakage deposit, for students in Physiological Biology	5.00
Laboratory fee, for students in Chemistry.....	5.00
Breakage deposit, for students in Chemistry.....	5.00

### CRAMPTON HALL ROOMS (see page 31)

Including heat and janitor service.

6, 11, 22, 27.....	\$20.00	With two students, each..	10.00
5, 23.....	28.00	With two students, each..	14.00
7, 8, 9, 10, 12, 13,...			
14, 15, 16, 17, 18,....			
19, 20, 21, 24, 25,...			
26, 28.....	36.00	With two students, each..	18.00

### ACADEMY HALL ROOMS (see page 32)

Including board, light, heat, and plain laundry.....	125.00
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Members of the Junior, Sophomore, and Freshman classes, occupying any of the College rooms, may retain the same rooms for another academic year, by making application in writing to the Dean on or before Saturday, May 14, 1904. Rooms not reserved will then be offered to the classes in order: Choices will be allotted to the Junior class on Tuesday, May 17, to the Sophomore class on Friday, May 20, and to the Freshman class on Tuesday, May 24. As far as possible Academy students will have rooms allotted to them at the same time and in the same order as the College classes.

Breakage deposits are to cover possible damage to apparatus and property, and the gas deposit is to cover the cost of lighting, as measured by individual meters in the rooms of Crampton Hall. The balance due each student on these accounts will be repaid at the end of the semester.

Students who find it necessary on account of sickness to give up a semester's work during its first half will have returned to them one-half of that semester's payment. In no other case will money be refunded.

### GENERAL EXPENSES

In addition to the fixed charges given above there are certain general expenses which may be incurred.

*Rooms*—Crampton Hall (see page 31): Rental of furniture, estimated for semester, \$5.00. Cost of new furniture, estimated for entire course, \$25.00 to \$50.00. Gas and breakage, estimated for semester, \$2.50.

*Board*: Students maintain a boarding club in a commodious building on the campus, well supplied by

the College with all the necessary table and other furniture, and obtain good board at its actual cost: Estimated per week, \$2.50. Board in private families, with furnished room, estimated per week, \$3.50 to \$4.50.

*Books, Society Fees, Laundry, etc.:* These items vary with the taste and habits of the student. Estimated per semester, \$5.00 to \$10.00.

### SPECIAL STUDENTS

The matriculation and registration of special students will be at the time and place specified for regular students, but their fixed charges will differ in the following items: For each semester:

Tuition 2-hour course .....	\$ 8.00
Tuition, 3-hour course.....	10.00
Tuition, 4 or 5-hour course .....	15.00
Tuition, more than one course.....	25.00
Library fee.....	5.00
Gymnasium classes, 20 lessons.....	5.00

Laboratory fees and general expenses may be estimated at the same figures as for regular students.

### SELECTION OF STUDIES

In order to assist the student in a wise selection of studies certain major subjects have been chosen and a definite number of hours have been required. These majors are: Greek, Latin, French, German, English, History and Political Science, Mathematics, Physics, Chemistry, and Biology.

All candidates for the Bachelors' degree must obtain credit in 130 hours of College work before graduation.

Of these 130 hours, 60 shall be required in the following subjects, and as indicated:

English	-	-	-	-	14 hours
Mathematics	-	-	-	-	10 hours
Science	-	-	-	-	10 hours
Language	-	-	-	-	20 hours
History	-	-	-	-	6 hours
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Total	-	-	-	-	60 hours

In the Freshman year all students must choose 34 hours (17 each semester) in required subjects. These subjects and hours are:

Mathematics	-	-	-	-	10 hours
English	-	-	-	-	4 hours
Language	-	-	-	-	10 hours
Language or Science	-	-	-	-	10 hours
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Total	-	-	-	-	34 hours

One hour of Oratory for two semesters after the Freshman year shall be required of all candidates for the Bachelors' degrees. For these courses no credits are given.

Students must pursue the rest of their required studies as early in their College course as possible.

At the beginning of the first semester of their Sophomore year all students must choose a major department in which, during their College course, they must select not less than 30 hours, including any hours required in that department. In lieu of a single major department students may choose two related departments, in each of which they must select not less than 20 hours.

In the Sophomore, Junior, and Senior years a stu-

dent must choose from the electives for which he is prepared a sufficient number of hours to make a total, with required work, of 16 hours per week each semester.

Permission to take other than 16 hours a week in any year must be obtained from the Dean, subject to the approval of the Faculty.

Students before registering with the Dean for elective studies must consult the instructors under whom they are pursuing their major subjects.

Students electing a course that has a course logically following it in the second semester will be required to take the course during the second semester.

Students beginning any language must continue to study it for two consecutive years, unless excused by special vote of the Faculty.

## EXAMINATIONS AND GRADES

At the end of each semester all students are examined in the course pursued by them during the semester. A student is not admitted to examination in any course in which his work has been unsatisfactory to the instructor. Absence from an examination, except by reason of absolute necessity, will be regarded as failure in the course. When such absence involves a special examination the student is required to pay a fee of one dollar. The results of the examinations are combined with those of the recitations to decide the standing of the student.

The standing of a student is indicated by letters as follows: A—Exceptionally good. B—Passed with credit. C—Passed. D—Conditioned. E—Failed.

Every condition must be removed during the se-



mester following such condition, or it will be marked a failure. In case of failure in a required course, the course must be taken again the first succeeding semester that it may be offered.

#### COLLEGE RANK

College students who have completed less than thirty hours will be ranked as Freshmen; those who have completed thirty or more, but less than sixty, as Sophomores; those who have completed sixty hours, but less than ninety, as Juniors, and those who have completed ninety or more hours, as Seniors.

#### RECORDS AND REPORTS

A careful record is kept of the attendance of each student in the College and of proficiency in the several studies pursued. At the end of the semester a report is sent to the parent or guardian indicating the student's standing in each study for that semester.

#### ATTENDANCE

Each student is required to be regular in attendance upon chapel services and class exercises, but to allow for such absences as may seem necessary, the following rules have been adopted:

1. A student is allowed each semester the following absences: From chapel services, 10 absences; from a five-hour course, 5; from a four-hour course, 4; from a three-hour course, 3; from a two-hour course, 2; from a one-hour course, 2.

2. Any student having for any cause more than the allowed number of absences in any course will be



considered conditioned in the course. In order to remove the condition, the student must do such extra work as the instructor may assign.

3. Absences from chapel on account of sickness will be excused at the discretion of the Dean, if the student so requests immediately upon return to College. For any unexcused absence beyond the limit the student will be dismissed from College.

### CLASS OFFICERS

In order that the closest and most friendly relations may exist between the students and the Faculty, each class upon entering College has an instructor assigned to it as class officer, to whom its members can look for advice and counsel at all times during their College course, and whose judgment in many matters can be of great value to them.

### GRADUATION

In the award of all degrees and honors, attention is paid to the conduct of the student during the College course, and any student who has incurred serious discipline may be debarred from the rank to which otherwise his scholarship would have entitled him.

### BACHELOR'S DEGREES

Students who complete a required course of study of 130 hours are ordinarily recommended by the Faculty for the degree of Bachelor of Arts, or Bachelor of Science, according to the studies pursued. If the recommendation is approved by the Trustees, the degree is conferred at Commencement, and diplomas, signed by

the President and by the Secretary of the Board of Trustees, are issued. The fee for this degree is ten dollars, to be paid to the College Treasurer not later than one week before Commencement.

#### MASTER'S DEGREE

The degree of Master of Arts may be conferred upon a Bachelor of Arts of this or any other institution of approved standing, who shall have devoted one year exclusively to graduate study in the College under direction of the Faculty, and who shall have shown satisfactory proficiency in his work through examinations and by preparing a thesis upon an approved subject. The fee for this degree is ten dollars, to be paid to the College Treasurer before the candidate enters the final examinations.

Under the same conditions the degree of Master of Science may be conferred upon a Bachelor of Science.

#### HONORS

The final rank of members of a graduating class is computed by combining the averages for the several years of the College course; the average for the Freshman year, however, is omitted in those cases in which it would lower the standing of the student. From these final marks the Faculty determines what portion of the class shall be printed as the Honor List—the names of the members of each group being printed in alphabetical order. Special Honors in particular departments are also awarded.

The first and second general groups thus determined are the Honor groups of the graduating class, and

are designated *magna cum laude*, or *cum laude*, respectively.

The higher distinction of *insigni cum laude* and the highest, of *summa cum laude*, are reserved for very unusual excellence.

#### COMMENCEMENT SPEAKERS

The Senior whose individual rank is highest is ordinarily awarded the *Valedictory* by vote of the Faculty. In like manner the Senior whose individual rank is the next highest receives the *Salutatory*. Three others who ranked highest in the Senior Oratorical contest are chosen to deliver English Orations, usually in the order of their scholarship.

#### PRIZES

All prizes are offered each year. The Faculty is authorized, however, to withhold a prize in any instance in which reasonable competition is not manifested by members of the class entitled to compete. In order to compete for any prize a student must be regularly enrolled in one of the College classes, must pursue the subject in which the prize is given with his class, and must maintain a good average in all his studies.

It is expected that all prizes will be expended for books or for some other object approved by the Faculty.

#### THE REID PRIZES

Four prizes, in memory of Arthur Somerville Reid, are given, as follows:

(a) A prize of \$50, competition for which is open to the members of the Senior class, is awarded for the

best original oration on a given subject judged from the standpoint of thought and composition.

(b) A prize of \$30, competition for which is open to the five Seniors attaining the highest rank in contest (a), is awarded to the competitor receiving the highest rank, judged from the standpoint of delivery and general merit.\*

(c) A prize of \$20, competition for which is open to members of the Junior class, is awarded for the best thesis of not less than 4,000 words on some subject chosen by the Department of History.

(d) A prize of \$20, competition for which is open to members of the Junior class, is awarded for the best thesis of not less than 4,000 words on some subject to be chosen by the Department of English.

#### THE SMITH PRIZES

A fund of \$1,000 has been given by Mr. Thomas Smith of Hartford, Conn., the income from which is applied as follows:

(a) The income from the sum of \$250 is awarded to a member of the Sophomore class for the best declamation in English prose.

(b) The income from the sum of \$250 is awarded to a member of the Sophomore class receiving the highest grade for the year's work in English composition.

(c) The income from the sum of \$250 is awarded to a member of the Sophomore class in Mathematics for the best discussion of some subject related to the work of the year.

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\*The three seniors receiving the highest average mark in this contest are chosen as Commencement Speakers.

(d) The income from the sum of \$250 is awarded to the member of the Freshman class giving the best discussion of some assigned problem or topic in Mathematics. The competition is open to the four students whose class rank for the year in Mathematics is highest.

#### THE IRELAND PRIZE

The income from the sum of \$500, given by Rev. W. E. Catlin, of the class of 1845, in honor of his classmate, Rev. William Ireland, is awarded to a member of the Senior class for the best paper on some assigned subject in the Department of Philosophy.

#### THE BRYAN PRIZE

The income from the sum of \$300, given by the Hon. William Jennings Bryan, of the class of 1881, is awarded to the member of the Junior class in Political Science who presents the best thesis on an assigned subject bearing on the work of the course.

#### THE HALL PRIZE

The income from the sum of \$250, given by Mr. H. H. Hall, of Jacksonville, is awarded for the best oration delivered by a member of the Junior class.

#### THE ROSS PRIZE

The sum of \$25, given by Mr. George C. Ross, of the class of 1873, is awarded to the member of the Junior or Senior class who presents the best thesis on the subject: "How can the ability to write and speak good English be best promoted in Illinois College?"

## PRIZES AWARDED 1903

## The Reid Prizes—

a.	Arthur O. Lindsay	-	-	-	\$50.00
b.	George W. Watson	-	-	-	30.00
c.	George W. Watson	-	-	-	20.00
d.	Not awarded.				

## The Smith Prizes—

a.	Lathrop H. Ward	-	-	-	\$12.50
b.	Not awarded.				
c.	Lathrop H. Ward	-	-	-	12.50
d.	Herbert B. Sanford	-	-	-	12.50

## The Ireland Prize—

	Joseph E. Winterbottom	-	-	-	12.50
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## The Bryan Prize—

Not awarded.

## The Hall Prize—

	Arthur F. Ewert	-	-	-	\$12.50
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## SCHOLARSHIPS

The income from Scholarships is given to students as a reward of merit and as a means of assistance. Application for a scholarship must be made in writing not later than May 15, and must contain an honest statement of the student's financial condition. In the case of new students this statement must be accompanied by testimonials of good moral character, and of intellectual ability.

Scholarships are usually assigned for one year and are only payable to those who are regularly enrolled in one of the College classes. Students desiring to have their scholarships continued must make application each year in the regular form.

A student who is conditioned in any subject will forfeit his scholarship for the next semester.

The following scholarships have been established by friends of the College:

- 1—The Henry Haskins Ousley Memorial Scholarship, established by Mrs. Ella L. Brainard, of Lincoln, Ill., in memory of her father - \$1,000
- 2—The Walter Lee Sanders Memorial Scholarship, established by Hon. George A. Sanders, of Springfield, Ill., in memory of his son - \$1,000
- 3—The Frank L. True Memorial Scholarship, established by Lyman W. True, of Jacksonville, in memory of his son - - - \$500
- 4—The Hubbard Scholarship, established by friends of the College - - - \$1,000
- 5—The Barstow Scholarship, established by Mr. A. C. Barstow, of Providence, R. I. - - \$1,000
- 6—The Walcott Scholarship, established by Rev. Samuel Walcott, of Providence, R. I. \$1,000
- 7—The Holmes Scholarship, established by Mr. Charles Holmes, of St. Louis, Mo. - - \$1,000
- 8-9—The Ellis Scholarships, established by Rev. John M. Ellis, one of the founders of the College - - - - - \$2,000
- 10-11—The Abel Scholarships, established by Mr. Abel, of Quincy, Ill. - - - \$2,000
- 12—The Y. P. S. C. E. Scholarship, established by the Congregational Churches of Quincy, Jacksonville, and Waverly, the Christian Church, and the State Street Presbyterian Church of Jacksonville, Ill. - - - \$ 500



- 13—Ministerial Scholarships; sons and daughters of clergymen are granted half-scholarships, amounting to \$25 per annum.
- 14—University of Chicago Scholarships. These Scholarships, three in number, are open to the members of the graduating class who wish to pursue a post-graduate course at the University of Chicago. Each of these Scholarships yields \$120 per annum.
- 15—High School Scholarships. These are given in a limited number of High Schools to the boy who ranks either first or second among the boys, and to the girl who ranks either first or second among the girls, providing that in no case shall their grade for the last year in the High School be lower than 90 per cent on a basis of 100. This Scholarship amounts to \$50 per annum.
- 16—The Harvard University Scholarship. This Scholarship is open to the graduates of the universities and colleges of Illinois who wish to follow a graduate course of study at Harvard University. Application must be made before May 1st in each year; Senior students about to finish the undergraduate courses are eligible as candidates. Communications from candidates for the year 1904-5 should be addressed to Samuel Adams, 516 Monadnock Block, Chicago. This Scholarship yields \$300 per annum.

# HOURS OF RECITATION

	8:00	9:15	10:10	11:05	1:30	2:30	3:30
Bible . . . . .					T Th.		
Biology . . . . .			1, 2—Daily . . .	1, 2—M W F			
Chemistry . . . . .			3, 5—M W F	3, 5—Daily . . .			
English . . . . .	15, 8—M W F	11, 12—M W F	9, 10—M W F	1, 2—T Th.	3, 4—Daily . . .	1, 2—Daily . . .	7, 8—Daily . . .
	17, 18—T Th.	5, 6—T Th.	19, 20—T Th.			16—M W F.	
		13, 14—M W F		3, 4—M W F			
French . . . . .			3, 4—M W F		1, 2—Daily . . .		
Geology . . . . .	1, 2—M W F						
German . . . . .	5, 6—M W F	1, 2—Daily . . .		7, 8—M W F		3, 4—Daily . . .	
Greek . . . . .	3, 4—Daily . . .	1, 2—Daily . . .		5, 6—Daily . . .			
History . . . . .	1, 2—M W F	3, 4—M W F	7, 8—M W F				
Latin . . . . .		3, 4—M W F	1, 2—Daily . . .				
		11, 12—T Th.					
Math . . . . .	1, 2—Daily . . .	{ 5, 6—M W F 7, 8—T Th.	3, 4—Daily . . .		{ 9, 10—T W Th F 13, 14—M . . .		
Oratory . . . . .				1, 2—T . . .			
				5, 6—M W F			5, 6—M W F
Political Sc. . . . .	3, 4—T Th.	5, 6—T Th.				1, 2—M W Th	
Philosophy . . . . .	1, 2, 9, 10—M W F	5, 6—T Th.					
	3, 4—T Th.						
Physics . . . . .	3, 4—T Th.		1, 2—Daily . . .	1, 2—M W F			
Sociology . . . . .		1, 2—T Th.					

Daily Chapel Service, 9:00 to 9:15 a. m.

## COURSES OF INSTRUCTION

## BIBLICAL LITERATURE

FREDERICK SMITH HAYDEN, Professor.

Systematic courses in the study of the English Bible are offered each year; these courses are open to all students of the College. The purpose is to give the student a general historical knowledge of the Bible, with special emphasis on the life and teachings of Christ.

1—*Bible Versions and Canon* 1 hour

First Semester

A course of study showing the growth of Sacred Scriptures; the original manuscript forms; transmission through Jewish, early and later Christian versions, such as Septuagint, Syriac, Vulgate, Gothic, Luther's, and the English versions; an investigation of the selective process according to which the Hebrew and Christian Scriptures were, in course of time, gathered out of the entire body of Jewish and Apostolic Literature; the Apocryphal writings; types of Jewish and of Christian Scripture interpretation.

2—*Beginnings of Hebrew History* 1 hour

Entire Year

Study of the ancient civilizations which form the background of Jewish life; interpretation of the testimony furnished by the monuments and other records, in their relation to the Hebrew people.

3—*Hebrew History and Literature* 1 hour

Entire Year

Political, social, and religious life of the people;

their settlement in Canaan; division of the kingdom; connection with the great political movements between 937 and 586 B. C.; work of the Hebrew prophets.

4—*New Testament History and Literature* 1 hour  
Entire Year

Study of Roman and Jewish life about the time of Christ; laws and customs which form a background to the New Testament teachings; literature bearing on Jewish and Christian life.

5—*Life of Christ* 1 hour  
Entire Year

Study of Christ's life as revealed in the four gospels; Christ's teachings; the organization and development of the Primitive Christian church.

6—*Life and Letters of the Apostle Paul* 1 hour  
Second Semester

A study of several interpretations of the story of his conversion and activity; explanation of his commanding influence in the early church; relation of his doctrine to the teachings of Christ; comparison with other apostles—Peter, John, James, and their teachings; the literary style; contents; condition of the early churches calling forth his letters; the development of his doctrinal views, and the growth of personal spiritual experience, as shown in his writings.

## BIOLOGY

JAMES BERTRAM OVERTON, Professor

ISABEL SEYMOUR SMITH, Instructor

The courses in Biology are designed to give a general knowledge of the fundamental facts and prin-

ciples of organic life, and to make clear the subject-matter of these sciences as far as possible. They are intended to meet the needs of a general education, and also to serve as a preparation for those students who are shaping their studies with a view to future work in medicine.

1—*General Morphology (Botany)*

5 hours

First Semester

This course is intended to illustrate the general principles of Biology as well as to serve as an introduction to the study of Botany. The work deals with general morphology and outlines of classification. Selected types of Thallophytes, Bryophytes, Pteridophytes, and Spermatophytes are chosen, special emphasis being placed on evolution of sex, lines of development, alternation of generations, etc.

Two lectures, or recitations, with six hours laboratory work per week.

Text: Coulter, Plant Structures.

2—*General Morphology (Zoology)*

5 hours

Second Semester

This course aims to study representative types of animals, emphasis being placed on invertebrate morphology, anatomy, classification, distribution, and habits. The course endeavors to meet the needs of a general knowledge of Zoology and to furnish the basis of more advanced work. The course covers about the same field in the animal kingdom as is covered in the plant kingdom by Course 1. Types of Protozoa, Coelenterata, Platyheminthes, Nematoda, Echinodermata, Mollusca, Annelida, and Arthropoda are studied.

Two lectures, or recitations, and six hours laboratory work per week.

Text: Parker and Haswell, Manual of Zoology.

3—*Plant Physiology*  
First Semester

5 hours

This course presents the more general physical and chemical principles of plant functions, such as absorption, transpiration, photosynthesis, respiration, and growth. An elementary knowledge at least of Physics and Chemistry is a necessary antecedent to this course. The laboratory work is largely experimental.

Two lectures, or recitations, and six hours laboratory work per week.

Text: MacDougal, *Elementary Plant Physiology*.

4—*General Ecology*  
Second Semester

5 hours

This course treats of plants in relations to their environment. A study of plant organs is made in relation to their nutritive, reproductive, and protective functions. As much time is given also to the microscopic study of the tissues adapted for absorption, conduction, synthesis, transpiration, etc., as the course permits. A study of the various plant societies, and the factors which influence their distribution, migration, etc., is made in the field.

Two lectures, or recitations, and six hours laboratory work per week.

Text: Coulter, *Plant Relations*.

5—*Vertebrate Anatomy*  
First Semester

5 hours

This course is a continuation of Course 2. It includes a detailed study through dissection of an Ascidian, *Balanoglossus*, *Amphioxus*, Frog, and other types if time permits. The vertebrate characters, embryology, and histology will be considered.

Two lectures, or recitations, and six hours laboratory work per week.

Prerequisite: Course 2.

Texts: Parker and Haswell, Manual of Zoology; Marshall, The Frog.

### 6—*General Histology*

5 hours

Second Semester

This course is intended to teach some of the methods of modern technique, as well as to aid the student in a more detailed study of animal structures. The course develops the more general methods and principles of preparing materials for microscopical examination, and includes killing, fixing, imbedding, sectioning, staining, mounting, and drawing. The course begins with a study of the cell, its variations in form, arrangement and structure. A study of the fundamental tissues is then taken up, and as much time as possible devoted to the changes in the elemental tissues.

Two lectures, or recitations, and six hours laboratory work per week.

Prerequisites: Courses 2 and 5.

## CHEMISTRY.

JOHN BISHOP TINGLE, Professor

The courses of instruction are based entirely on the individual work of the student in the laboratory, and are intended to develop his reasoning and observational powers, in order to enable him to regard his surroundings in a rational and scientific manner. Thus far the work is simply for mental discipline. The second aim is to impart to the student a knowledge of the fundamental principles of the science, and to give him, as far as possible, familiarity with the properties of the more important substances and facility in their manipulation. Such work will necessarily be of great benefit, both directly and indirectly, to students who intend subsequently to become en-



gineers, physicians, lawyers, agriculturists, or to follow any branch of pure or applied science.

1—*General Chemistry*

5 hours

First Semester

Physical and Chemical change. States of matter, elements, and compounds. Study of the following elements and of their more important derivatives: oxygen, hydrogen, nitrogen, carbon, fluorine, chlorine, bromine, iodine, sulphur, phosphorus, silicon, boron. The simpler laws of chemical combination. Special attention is given to the subjects of atmosphere and water. A number of easy numerical problems will be set for solution.

Texts: Newth, Inorganic Chemistry; Waddell, Arithmetic of Chemistry.

2—*General Chemistry*

5 hours

Second Semester

Continuation of Course 1.

Study of the following metals and of their more important compounds: sodium, potassium, silver, copper, magnesium, calcium, strontium, barium, zinc, cadmium, mercury, aluminum, tin, lead, arsenic, antimony, bismuth, manganese, chromium, iron, nickel, cobalt, gold. The rare elements and the metals of the platinum group also are considered. Stress is laid on those substances of particular importance in technology, medicine, and the arts, and the bearing of recent theories is indicated in an elementary manner.

Texts: See Course 1.

3—*Qualitative Analysis*

5 hours

First Semester

Tests are made by each student for the recognition and separation of metals mentioned in Course 2, and

of radicles derived from elements enumerated in Course 1. After the examination of easy mixtures, the analysis of more complex substances is made, including that of minerals and alloys of industrial importance. Lectures are given on the principles and theory of analysis.

Prerequisite: Courses 1 and 2.

Texts: Jones, Junior Course of Practical Chemistry; Walker, Physical Chemistry.

#### 4—*Qualitative Analysis*

5 hours

Second Semester

Continuation of Course 3.

The work includes the analysis of plant ashes, tests for organic acids and bases, the detection of other organic substances of special interest to medical students, and the examination of foods, etc., for poison. Selected parts of chemical theory are studied, and periodicals and works of reference frequently consulted.

Texts: See Course 3.

#### 5—*Quantitative Analysis*

5 hours

First Semester

Operations of weighing and measuring. The student purifies and analyzes a few simple salts so as to be familiar with the more usual conditions under which gravimetric analyses are performed. Volumetric methods also are practiced as far as time permits. The studies in chemical theory are continued from Course 4. Collateral reading of periodicals and works of reference is required.

Texts: See Course 3.

#### 6—*Quantitative Analysis*

5 hours

Second Semester

Continuation of Course 5.

After completion of the volumetric work, substances of greater complexity are examined, including food, water, and technical products. The work is arranged as far as possible to satisfy each student's special interest. The student is called upon to present to the class the results of his particular study of some topic which he has selected with the advice of the Professor.

Text: Clowes and Coleman, Quantitative Analysis.

### 7—*Organic Chemistry*

5 hours

#### First Semester

Composition, sources, and general properties of organic compounds. Hydrocarbons of the methane, ethylene and acetylene series. Substitution and oxidation products. Alcohols, aldehydes, acids. Fats, soaps, and carbohydrates. Compounds of carbons containing elements other than oxygen, hydrogen, and the haloids. Methods of determining molecular weights. General theoretical relationships.

Prerequisite: Course 6.

Text: Noyes, Organic Chemistry.

### 8—*Organic Chemistry*

5 hours

#### Second Semester

Continuation of Course 7.

Hydrocarbons with closed chains. Benzene and its constitution. The chief classes of benzene derivatives, with special reference to those of technical importance. The simpler dyes. Napthalene and more complex compounds. Alkaloids. Organic synthesis. Correlation of the properties and constitution of organic compounds. General theory.

Texts: See Course 7. Meyer, Determination of Radicles in Carbon Compounds.

## ENGLISH

JOHN GRIFFITH AMES, Professor of English

JANE SHERZER, Professor of English Philology

The work in this department is arranged upon a plan that first gives the student a general survey of the history of English and American Literatures from their beginnings to the present day. After these preliminary courses, more definite and minute study is bestowed upon courses that center in the most significant periods of those histories. In addition, courses are given in Rhetoric and Composition.

1—*Rhetoric*

2 hours

First Semester

Practical work in the study of Rhetoric by the application of its principles to the writing of themes in Narration, Description and Exposition. Criticism of short themes in the classroom. Frequent consultations. Professor AMES.

Text: A. S. Hill, Principles of Rhetoric.

2—*American Literature*

2 hours

Second Semester

An outline course, with as much classroom and supplementary reading as possible. A study of the chief authors from the Colonial Period to the present day, with special attention to Longfellow, Hawthorne, Poe, Emerson, and Holmes. Frequent written reports. Recitations and lectures. Professor AMES.

Text: Pancoast, Introduction to American Literature.

3—*History of English Literature*

3 hours

First Semester

An outline course, with as much supplementary

reading as possible. The most important authors from the Anglo-Saxon Period to the present day. The various periods and influences are discussed in connection with the works of writers typical of each period. The aim of the course is to awaken in the student an interest in English Literature, and to direct him in his search for what is best and noblest in that literature. Professor SHERZER.

Text: Simonds, History of English Literature.

4—*History of English Literature* 3 hours  
Second Semester

Continuation of Course 3. Professor SHERZER.

5—*Composition* 2 hours  
First Semester

Constant drill in written expression based on a study of American prose authors, Franklin, Irving, Hawthorne and Poe. At first very short themes are written daily, then tri-weekly, and later gradually lengthened and required less frequently. Lectures on the principles of composition. Study of styles. Criticism of themes in the classroom. Weekly individual consultations. Professor AMES.

Text: Baldwin, College Manual of Rhetoric.

6—*Composition* 2 hours  
Second Semester

A continuation of Course 5. Advanced work. Themes are less frequent and longer than in Course 5. Weekly exercises in popular and literary subjects. Cultivation of individual style. Study of the short story. Lectures by the instructor. Consultations. Professor AMES.

Prerequisite: Courses 1 and 5.

Reference book: Wendell, English Composition.

7—*English and Scotch Popular Ballads* 3 hours  
First Semester

Extensive reading in the old ballads of England and Scotland. Lectures on the origin, form, source, style, authorship, distribution, etc. Fortnightly reports. Professor AMES.

Text: F. B. Gummere, *English and Scotch Ballads*.

8—*Sixteenth Century Literature* 3 hours  
Second Semester

Lectures on the history of English Literature from the Revival of Learning to Milton, exclusive of the Drama. The chief works of Wyatt, Surrey, Spenser, Sidney, Hooker, Bacon, and Lyly are read. Supplementary reading. Professor SHERZER.

9—*Eighteenth Century Poetry* 3 hours  
First Semester

Lectures, biographical and critical. The first few weeks are devoted to the study of Dryden and Pope and to the growth and characteristics of the Classical School. The beginnings of the Romantic Movement in poetry. Extensive supplementary reading; Dryden, Gay, Pope, Prior, Thompson, Collins, Young, Gray, Goldsmith, Beattie, and Cowper are the poets studied. Fortnightly written reports.

Reference Books: Gosse, *Eighteenth Century Literature*; Beers, *English Romanticism in the XVIII Century*; Phelps, *Beginnings of the English Romantic Movement*; Garnett, *Age of Dryden*; Dennis, *Age of Pope*. Professor AMES.

10—*Nineteenth Century Poetry* 3 hours  
Second Semester

A continuation of Course 9. The development of the Romantic Movement and the Poetry of Revolt is further traced through the poetry of Burns, Blake,

Scott, Coleridge, Wordsworth, Byron, Shelley, Keats, and Tennyson. The poetry of Arnold, Morris, Rossetti, and Swinburne is also studied if time permits. Lectures by the instructor. Written reports. Professor AMES.

Prerequisite: Course 9.

Additional Reference Books: Saintsbury, Nineteenth Century Literature; Herford, Age of Wordsworth; Walker, Age of Tennyson.

11—*The English Novel* 5 hours  
First Semester

The history and development of English Prose Fiction from 1485 to the present day. Brief outlines of Continental Prose Fiction before 1485. Extensive reading of the best works of the masters of English novel-writing. Study of styles, methods, movements, and schools. Weekly written reports. Lectures by the instructor. Professor AMES.

Reference Books: Tuckerman, History of English Prose Fiction; Wm. Forsyth, Novels and Novelists of the XVIII Century; Dunlap, History of Fiction; Raleigh, The English Novel.

12—*The English Novel* 5 hours  
Second Semester

Continuation of Course 11. Professor AMES.

13—*Chaucer* 3 hours  
First Semester

A study of Chaucer's works with reference to his various periods of development and influence upon the style of succeeding poets. Professor SHERZER.

14—*Middle English* 3 hours  
Second Semester

A literary as well as linguistic study of prose and



poetry from the late Anglo-Saxon of the twelfth century to Chaucer and his contemporaries of the fourteenth. The order of reading is from the later, and consequently easier, to the earlier and more difficult.

Professor SHERZER.

Prerequisite: Course 13.

Text: Morris and Skeat, Specimens.

15—*Pre-Shakespearean Drama* 3 hours  
First Semester

A study of the origin, structure, and evolution of the English Drama from the Mysteries, Miracles, Moralities, and Interludes, through Roister Doister, King Johan, and Gorboduc, Peele, Nash, Lyly, Kyd, and Marlowe, to Shakespeare. Lectures by the instructor. Professor SHERZER.

Text: Manley, Specimens of Pre-Shakespearean Drama, 2 vols.

16—*Shakespeare* 3 hours  
Second Semester

Critical, textual, and literary study of selected plays; 2nd Henry IV, Twelfth Night, Julius Caesar, Lear, Hamlet, The Tempest. Supplementary reading. Lectures on the life, times, and genius of Shakespeare. Professor AMES.

Texts: Rolfe's edition of Shakespeare's Plays.

17—*Anglo-Saxon* 2 hours  
First Semester

Anglo-Saxon grammar, with a preliminary study of Gothic inflections. Beowulf treated from the literary as well as linguistic side. Especial attention given to scansion and Anglo-Saxon versification. Lectures by the instructor. Professor SHERZER.

18—*Anglo-Saxon* 2 hours  
Second Semester

A continuation of Course 17. Professor SHERZER.  
Prerequisite: Course 17.

19—*Literary Criticism* 2 hours  
First Semester

A course designed to help students to understand why admired works of literature are admirable, and thus to lead them to form correct opinions for themselves instead of carelessly accepting traditional authorities. Professor AMES.

20—*Mythology* 2 hours  
Second Semester

A study of Greek, Roman, and Norse Mythologies, especially in their relations to English Poetry. Professor AMES.

## FRENCH

STELLA LENORE COLE, Instructor

The courses in French are designed to give the student a good knowledge of the forms and structure of the language, and some acquaintance with its literature.

1—*Elementary French* 5 hours  
First Semester

Pronunciation and grammar. Oral and written exercises. Dictation and memorizing. Fraser and Squair, French Grammar. Reading of easy narrative prose.

2—*Elementary French, continued* 5 hours  
Second Semester

Reading, composition, and grammar. The compo-

sition consists of the translation of sentences and of easy connected discourse. In the reading, emphasis is placed upon an understanding of the idiomatic constructions.

Texts: Fraser and Squair, French Grammar. Benton, Easy French Plays: Halevy, L'Abbe Constantin.

### 3—*Modern French*

5 hours

#### First Semester

Merimee, Columba; Pailleron, Le Monde ou l'on s'Ennuie; Maupassant, Contes; Dumas, La Question d'Argent. Translations from English into French, based upon the reading.

Prerequisite: Course 2.

### 4—*Modern French*

5 hours

#### Second Semester

Continuation of Course 3. Augier, Le Gendre de Monsieur Poirier; Rostand, Cyrano de Bergerac; Balzac, Eugenie Grandet; Bowen, Modern French Lyrics.

Prerequisite: Course 3.

### 5—*Composition*

2 hours

#### First Semester

Review of grammar, and practice in written and oral translation from English to French.

Texts: Baillot and Brugnot, French Prose Composition; Hennequin, Lessons in Idiomatic French.

### 6—*Composition*

2 hours

#### Second Semester

Continuation of Course 5.

Prerequisite: Course 5.

7—*Classic Drama*

3 hours

First Semester

The study of one play each of Corneille and Racine, and two of Moliere; collateral reading and reports.

Texts: Corneille, *Le Cid*; Racine, *Athalie*; Moliere, *Le Misanthrope*, and *L'Avare*.

Prerequisite: Course 4.

8—*Eighteenth Century Literature*

3 hours

Second Semester

Studies in Montesquieu, Voltaire, Diderot, Rousseau, and Beaumarchais; collateral reading and reports.

Prerequisite: Course 7.

## GERMAN

STELLA LENORE COLE, Instructor

The aim of the instruction is to afford grammatical and linguistic training, and for those who have not had a classical course, a degree of literary culture.

Emphasis is laid upon the idiomatic sentence and the modern language, and to this end colloquial practice is held to be important.

1—*Elementary*

5 hours

First Semester

Drill in pronunciation, the rudiments of grammar, abundant exercise in translating and memorizing. Simple reading matter is introduced early in the course.

Texts: Thomas, *Practical German Grammar*; Grimm, *Marchen* (van der Smitten).

2—*Elementary*

5 hours

Second Semester

A continuation of Course 1, with reading of easy narrative prose.

Texts: Guerber, *Marchen und Erzählungen*, (for narration); Stern, *Geschichten vom Rhein*; Storm, *Immensee* (ed. Whitenack); *Drei kleine Lustspiele* (ed. Wells).

3—*Intermediate* 5 hours  
First Semester

The first part of the course consists of a thorough drill in composition. A beginning is made in the reading of German classics.

Texts: Von Jagemann, *Elements of German Syntax*; Von Jagemann, *Materials for German Prose Composition*; Heine, *Die Harzreise* (ed. Van Daell).

4—*Intermediate* 5 hours  
Second Semester

A reading course in Schiller.

Texts: Wilhelm Tell (ed. Carruth); Maria Stuart (ed. Muller und Wenckebach); Jungfrau von Orleans (ed. Wells).

5—*Advanced* 3 hours  
First Semester

A reading course in Freytag's Prose.

Texts: Selections from "Bilder aus der deutschen Vergangenheit," as follows: Karl der Grosse, *Aus dem Klosterleben im zehnten Jahrhundert*, *Aus den Kreuzzugen* (ed. Nichols); Doktor Luther (ed. Goodrich); *Aus dem Staat Friedrichs des Grossen* (ed. Hager).

6—*Advanced* 3 hours  
Second Semester

A reading course in Goethe's Dramas.

Texts: Egmont, with Schiller's *Essays* (ed. Winkler); Torquato Tasso (ed. Thomas).

- 7—*Outline Course in German Literature* 3 hours  
First Semester

A lecture course, conducted entirely in German. Considerable outside reading will be required, with reports in German.

Admission by application to the instructor.

- 8—*Outline Course in German Literature* 3 hours  
Second Semester

Prerequisite: Course 7.

## GREEK

JOHN MARTIN REDPATH, Instructor

The department endeavors in its courses to train students in the rudiments of the Greek language, to familiarize them with the range of Greek literature, and to give them some conception of Greek ideals.

- 1—*Elementary Greek* 5 hours  
First Semester

- 2—*The Anabasis* 5 hours  
Second Semester

A thorough reading of Books I and II, with careful drill in forms and syntax; Greek composition. Students must take Course 2 immediately after completing Course 1.

Texts: Goodwin and White, *Anabasis*; Goodwin, *Greek Grammar*.

- 3—*Xenophon and Homer* 5 hours  
First Semester

Books III and IV of the *Anabasis*. As an introduction to Homer, lectures upon Mycenaean Antiquities, Homer, Homeric dialect and meter, etc. Careful study

of Book I of the Iliad. Greek composition based upon the Anabasis throughout the semester.

Prerequisite: Course 2.

4—*Homer*

5 hours

Second Semester

Course 3 continued. Books II and III of the Iliad, with selections from the other books. Students are expected to master the whole story in considerable detail. Greek composition based upon the Anabasis.

Prerequisite: Course 3.

5—*Lysias and Xenophon*

5 hours

First Semester

Reading of Lysias' most interesting orations with attention to his evidence upon points of Athenian history, law, and private life. Selections from Xenophon's Memorabilia; outline of Pre-Socratic Philosophy; an outline of Greek Literature.

Prerequisite: Course 4.

6—*Plato*

5 hours

Second Semester

Reading of Apology and Crito, with such selections from other dialogues as time permits. Lectures upon Plato and Socrates. Outline of Greek Literature continued.

Prerequisite: Course 5.

7—*The Drama*

2 hours

First Semester

Sophocles' Oedipus the King; Euripides' Alcestis or Electra. Lectures upon Attic drama and theatrical antiquities.

Prerequisite: Course 6.



8—*The Drama* 2 hours  
Second Semester

Aeschylus' *Agamemnon*; Aristophanes' *Clouds*; Lectures upon origin and development of Tragedy and Comedy.

Prerequisite: Course 6.

9—*Demosthenes* 2 hours  
Second Semester

Philippics I-III and the *Olynthiacs*.

Prerequisite: Course 6.

10—*Thucydides and Herodotus* 2 hours  
Second Semester

Thucydides, Book II, and as much as possible of the Sicilian expedition. Sight translation in Herodotus, VII-IX.

Prerequisite: Course 6.

11—*New Testament Greek* 2 hours  
First Semester

A rapid reading course, with merely enough commentary by the instructor for a clear understanding of the text. The Gospel of Luke, parts of The Acts, and parts of Paul's Epistles.

Prerequisite: Course 6.

13—*Greek Poetry in Translations* 1 hour  
First Semester

Greek lyric and dramatic poetry in translations. Lectures upon the lives of the poets, upon the origin and development of Tragedy and Comedy, and upon theatrical antiquities. Open to all Juniors and Seniors. No knowledge of Greek is required.

14—*Continuation of Course 13* 1 hour  
Second Semester

## HISTORY AND POLITICAL SCIENCE

CHARLES HENRY RAMMELKAMP, Professor

In this department are included the courses in History, Politics, and Economics, grouped under the two heads of History and Political Science. A minimum amount of collateral reading is required in all the courses, the results of which are presented in written reports or examinations. In the more advanced courses in History the lectures and text-books are further supplemented by the study of selected original documents.

## HISTORY

1—*The Middle Ages*

3 hours

First Semester

The history of Europe from the latter part of the fifth to the end of the fifteenth century. The course aims to give a general view of the period from the fall of Rome to the discovery of America. In the history of this period some special topic, such as Feudalism or the Crusades, will be selected for more detailed study.

2—*Modern History*

3 hours

Second Semester

The period covered extends from the Renaissance to the Franco-German War. Of the events of this period more especial attention will be given to the Protestant Reformation, the Thirty Years' War, the Seven Years' War, the Revolution of 1848, and the establishment of the present German Empire.

Courses 1 and 2 are introductory and required of students before admission into the other courses of the department.

3—*History of England*

3 hours

## First Semester

The history of England from the Norman Conquest to the accession of Elizabeth. While most emphasis will be laid upon political history, the more important constitutional and economic phases of the period will not be neglected. Lectures, recitations, and collateral reading, supplemented by studies in Adams' and Stephens' Select Documents.

Prerequisites: Courses 1 and 2 or their equivalents.

4—*History of England*

3 hours

## Second Semester

The history of England from the accession of Elizabeth to recent times. This course, a continuation of Course 3, will deal with the later period of English history. The religious policy of Elizabeth, the constitutional aspects of the Civil War, and of the Revolution of 1688, the development of the Cabinet system and the movement for Parliamentary reform will receive especial attention. The course will also include a brief study of the rise of English power in India. Method of study similar to that of Course 3.

Prerequisite: Course 3.

5—*The Renaissance and Reformation*

3 hours

## First Semester

This course deals with the period from the fourteenth to the end of the sixteenth century. Beginning with a study of the Renaissance in Italy, the course will trace the development of the Revival of Learning in the other countries of Europe. The latter part of the semester will be devoted to a study of the religious revolt from the Church of Rome.

Prerequisites: Courses 1 and 2 or their equivalents.

6—*French Revolution and Napoleonic Era* 3 hours  
Second Semester

The course includes the history of the important countries of Europe between 1789 and 1815, but particular attention will be given to the revolution in France and the consequent international complications, and to the rise and overthrow of the power of Napoleon.

Prerequisites: Courses 1 and 2 or their equivalents.

7—*American Colonial and Revolutionary History* (1492-1783) 3 hours  
First Semester

A course on early American History from the period of discovery to the end of the War of the Revolution. The work will include a brief survey of the problem of a Pre-Columbian discovery of the continent, followed by an account of the early voyages, and the history of the English colonization of America. Especial attention will be devoted to the Revolutionary War. Lectures, recitations, topical reports, and studies in Macdonald's Select Charters.

8—*American History* (1783-1829) 3 hours  
Second Semester

A general course on the history of the United States from the end of the Revolution to the administration of Andrew Jackson. The course will deal mainly with the political and constitutional aspects of the period. Special attention will be given to the movement that led to the adoption of the federal constitution. Lectures, recitations, topical reports, and studies in Macdonald's Select Documents.

9—*American History* (1829-1876) 3 hours  
Second Semester

History of the United States from the administra-

tion of Andrew Jackson to the presidential election of 1876, with particular reference to the Jacksonian Democracy, the Slavery Controversy, and the Reconstruction of the Southern States. Method of study similar to that of Course 8.

10—*Seminary in History* 1 hour  
First Semester

A course designed for advanced students to give some training in original research. Introductory work on historical bibliography and criticism, followed by the writing of a thesis. The course aims to prepare students to compete for the Reid prize in history.

11—*Seminary in History* 1 hour  
Second Semester

A continuation of Course 10, giving an opportunity for further practical work in historical research.

Prerequisite: Course 10.

## POLITICAL SCIENCE

The courses in Political Science are designed for Juniors and Seniors; they are not open to Freshmen, and only by special permission to Sophomores.

1—*Economics* 3 hours  
First Semester

An elementary course in Political Economy. A study of the principal theories of economic science, with some consideration of the economic problems presented in the earlier and contemporary history of the United States.

2—*Political Institutions* 3 hours  
Second Semester

Introductory studies on the nature of the state and the interpretation of political terms, such as sovereignty, liberty, etc., followed by a detailed consideration of the government of the United States, with especial reference to present political problems. The governments of the important European countries will also be studied and compared with one another and with our own political system.

3—*Public Finance* 2 hours  
First Semester

A study of the general principles which determine public income and expenditure, with especial reference to taxation in the United States.

Prerequisite: Course 1.

4—*Money, Credit, and Banking* 2 hours  
Second Semester

The course deals with such subjects as the functions of money, laws of token money, legal tender, the history of gold and silver money in the United States, nature and functions of a bank, discounts and deposits, note issues, bank reserves, the national banking system, etc.

Prerequisite: Course 1.

5—*International Law* 2 hours  
First Semester

A course designed to explain the origin and interpretation of the rules governing the relations of modern nations. Especial attention will be given to the past and present problems of American diplomacy.

Prerequisites: Political Science, Course 2, and one year's work in History.

6—*Economic History*

2 hours

Second Semester

The industrial history of England and the United States as a basis for a more intelligent interpretation of present economic conditions.

## LATIN.

CARL LYMAN WILLIS, Instructor

In the work of the Freshman year the student's attention is directed to the subject of Latin style more closely than is possible in the preparatory school. Special emphasis is placed upon accurate translation into idiomatic English. Some time is given to sight translation throughout the year and to prose composition based on Cicero and Livy. In subsequent years more attention is paid to the authors read as interpreters of Roman life; the work is amplified by lectures on Latin Literature and special topics.

1—*Cicero and Livy*

5 hours

First Semester

Cicero's *De Amicitia*; Livy, Book 1; lectures on the credibility of early Roman history; selections from Books XXI and XXII. Prose composition.

2—*Lyric Poetry*

5 hours

Second Semester

Selected poems of Catullus. The greater part of the semester is devoted to Horace's Odes and Epodes.

Prerequisite: Course 1.

3—*Sallust and Tacitus*

3 hours

First Semester

Sallust's *Catiline*; the *Agricola* and *Germania* of Tacitus.

Prerequisite: Course 2.



4—*Comedy* 3 hours  
Second Semester

Selected plays of Plautus and Terence. Daily practice in reading aloud and in sight translation.

Prerequisite: Course 3.

5—*Epistolary Latin* 3 hours  
First Semester

Cicero, selected letters, studied particularly for their contribution to the history of the last years of the Republic; Pliny, selected letters, studied as illustrating the life of a Roman gentleman, official and man of letters under the early Empire.

Prerequisite: Course 4.

6—*Satire* 3 hours  
Second Semester

Selections from Horace, Juvenal and Persius; lectures on the historical development of Satire.

Prerequisite: Course 5.

7—*Latin Prose of the Empire* 2 hours  
First Semester

Gudeman's selections; a rapid reading course designed to give the student some acquaintance with authors not introduced in other courses of this department.

Prerequisite: Course 6.

8—*Latin Poetry of the Empire* 2 hours  
Second Semester

Gudeman's selections; a rapid reading course with the same purpose as that of Course 7.

Prerequisite: Course 6.

9—*Philosophy* 4 hours

## First Semester

A brief study of Mayor's Ancient Philosophy. Selections from Lucretius, Cicero and Seneca; part of the reading in the original, part in translations.

Prerequisite: Course 6.

10—*Tacitus* 4 hours

## Second Semester

Selections from the Annals and Histories; the historical side of the work is kept chiefly in view; some attention is paid to the development of the author's style by comparison with his other works.

Prerequisite: Course 6.

11—*Roman Private Life* 2 hours

## First Semester

Among the subjects considered are the Roman family, business life, education, amusements, houses, dress, meals, baths, etc. The student will use as a manual Johnston's "The Private Life of the Romans."

Prerequisite: Course 2.

12—*Roman Religion* 2 hours

## Second Semester

A course of lectures tracing the development of Roman Religion from mere superstition to a complexity of gods, and showing how foreign cults affected the old form of worship.

Prerequisite: Course 11.

## MATHEMATICS AND ASTRONOMY

WILLIAM OTIS BEAL, Instructor

The courses in Mathematics are designed to give, besides the inherent discipline, a thorough foundation for those intending to become teachers, or workers in the pure science and in some applied lines, such as Engineering, Physics, and Astronomy.

In Astronomy one course of a descriptive nature is given for the general student, and a second as a foundation for work in Mathematical Astronomy.

*1a—Plane Trigonometry* 5 hours

First half of First Semester

Trigonometric functions as ratios, formulae, identities, equations. Logarithms. Solution of right and oblique triangles. Problems taken largely from measurements made by the student.

Text: Murray, Plane Trigonometry.

*1b—Solid Geometry* 5 hours

Second half of First Semester

Relations of lines and planes in space, polyhedrons, cylinders, cones and sphere. Trigonometric solution of the spherical triangle. Original theorems and numerical applications.

*1c—Spherical Trigonometry* 5 hours

Second half of First Semester

Required of students presenting Solid Geometry for entrance.

Napier's rules and Gauss's Equations. Solution of right and oblique spherical triangles. Applications.

Text: Murray, Spherical Trigonometry.

2—*College Algebra*

5 hours

Second Semester

Quadratic equations, graphs, development of functions in series, limits, partial fractions, reversion of series, binomial theorem, convergency and summation of series, progressions, logarithms, permutations and combinations, continued fractions, theory of equations, determinants.

Text: Wells, *College Algebra*.

3—*Analytical Geometry*

5 hours

First Semester

The point, right line and conic sections in cartesian and polar co-ordinates. Discussion of the general equation of the second degree. Introduction to higher plane curves.

Text: Tanner and Allen, *Analytical Geometry*.

4—*Differential Calculus*

5 hours

Second Semester

Continuation of Course 3.

Differentiation of functions of one or more variables, development of functions, indeterminate forms, maxima and minima. Many applications are made to geometry and mechanics.

Text: McMahon and Snyder, *Differential Calculus*.

5—*Integral Calculus*

3 hours

First Semester

Continuation of Course 4.

Integration of elementary forms, of rational and irrational functions, of trigonometric and exponential functions; multiple integrals; applications to geometry and mechanics.

Text: Murray, *Integral Calculus*.

6—*Advanced Integral Calculus* 3 hours  
Second Semester

Continuation of Course 5.

General theory of definite integrals. Fourier series, Gamma functions, multiple integrals, elliptic integrals.

Text: Byerly, *Integral Calculus*.

7—*Solid Analytics* 2 hours  
First Semester

Planes, conicoids, sections, generating lines, systems of conicoids.

Prerequisite: Courses 1a, 1b, 2, 3, and 4.

Text: Smith, *Solid Geometry*.

8—*Analytical Mechanics* 2 hours  
Second Semester

Continuation of Course 7.

Statics: equilibrium of forces, center of gravity, friction, virtual velocities, machines, funicular polygon, attraction. Kinetics: variable forces, rectilinear motion, central forces, constrained motion, impact, work and energy, moment of inertia, rotary motion.

Text: Bowser, *Analytic Mechanics*.

9—*Descriptive Astronomy* 4 hours  
First Semester

Fundamental facts and laws, with underlying principles; general theories and modern developments; instruments and general methods.

Prerequisite: Courses 1a, 1b, and 2.

Text: Young, *General Astronomy*.

10—*Surveying* 4 hours  
Second Semester

Recitations; field work with transit and level;

measurement of angles, distances and areas; laying out of land and curves; determination of geographical position; leveling; plotting.

Prerequisite: Courses 1a, 1b, and 2.

Text: Johnson, Theory and Practice of Surveying.

11—*Differential Equations*

3 hours

First Semester

The solution of the following forms are studied: exact, linear, simultaneous, and partial. Applications are made to Geometry, Mechanics, and Physics.

Prerequisite: Courses 1a, 1b, 2, 3, 4, 5, and 6.

Text: Murray, Differential Equations.

12—*Theoretical Astronomy*

3 hours

Second Semester

Continuation of Course 11.

Fundamental motions, rectilinear and parabolic motion, solar heat, central forces, problem of two bodies, orbits, potential function, development of the ten known integrals.

Text: Moulton, Introduction to Celestial Mechanics.

13—*History of Elementary Mathematics*

1 hour

First Semester

Development of elementary mathematics. Lives and works of some of the world's great mathematicians. Informal. Reference reading, with reports.

Prerequisite: An interest in Mathematics.

14—*Seminar in Mathematics*

1 hour

Second Semester

Methods and subject matter of Mathematical teaching. Practice in the carrying out and presentation of original investigations. Informal.

## ORATORY

CARL LYMAN WILLIS, Instructor

The courses in Oratory are planned with the idea of giving the student at least three consecutive years of work along lines which will develop his powers of clear and original expression. From the beginning course in Physical Culture to the study of Dramatics in the Senior year, the individuality of the student is emphasized and his ease and grace in delivery cultivated by careful personal instruction.

1—*Declamation*

1 hour

First Semester

Physical culture exercise for poise and bearing, for the vital organs, and for special muscles; correct standing; breathing exercises for the development of the vocal organs; critical study of English pronunciation; drill in reading.

2—*Declamation*

1 hour

Second Semester

Physical Culture. Lectures on vocal culture and the relations of the vital and vocal organs. Declamation, study of selections from American writers, simple impersonations.

3—*Oratory*

2 hours

First Semester

History of Oratory. Lectures upon the lives of the great orators. Study of the principles of Oratory, using as examples the work of Demosthenes, Paul, Cicero, Burke, Pitt, Webster, Lincoln, Philips. Study and analysis of standard Deliberative, Forensic, Pulpit and Demonstrative Orations. Preparation and delivery of Deliberative Orations.



4—*Oratory* 2 hours

## Second Semester

Preparation and delivery of Demonstrative Orations. Principles of argument, gathering of materials and preparation of arguments on assigned subjects. Preparation of rebuttals. Class debates.

Text: Baker, The Principles of Argumentation.

5—*Evolution of Expression* 3 hours

## First Semester

Physical Culture. Laws of Evolution as applied to the development of the powers of vocal expression. Study of selections from the great orators, essayists, dramatists, and poets in chronological order to illustrate Evolution of Expression.

Text: Emerson, Evolution of Expression.

6—*Evolution of Expression* 3 hours

## Second Semester

Continuation of Course 5.

7—*Dramatics* 1 hour

## First Semester

Study of the history and technique of the Drama. Character studies from contemporary authors; presentation of scenes from Shakespeare.

Text: Woodbridge, The Drama, Its Laws and Its Technique.

8—*Dramatics* 1 hour

## Second Semester

Study of the modern Drama with the public presentation of a standard play.

## PHILOSOPHY AND RELIGION

FREDERICK SMITH HAYDEN, Professor

The work in Philosophy is intended to be both cultural and disciplinary. The student is helped to attain points of view of his own for thinking clearly and consistently upon the vital problems of life and of thought.

## PHILOSOPHY

1—*Elementary Psychology* 3 hours  
First Semester

Study of the elementary processes of the mind, cognitive, effective, and volitional—both from the psychological and the physiological point of view. A standard text-book, such as James' "Briefer Course" or Stout's "Manual," forms the basis of the work and the point of departure for discussion.

2—*Comparative Psychology* 1 hour  
Second Semester

A comparative study of the intelligence of animals from the lowest forms up to, and including man. The sphere of instinct and reason, with varying types of development. Discussion of the theories of Morgan and Romanes. The work of one of these authorities is made the basis of the course, and references to the essential features of the other are given.

Prerequisite: Course 1.

3 and 4—*History of Ancient Philosophy* 2 hours  
Entire Year

This course deals with the development of thought among the Greeks and Romans especially. Windelband's *History of Ancient Philosophy* is used as a text-book, supplemented by the study of typical selec-

tions from the works of Plato, Aristotle, Seneca, Lucretius, etc.

Given in alternate years with Courses 5 and 6.

5 and 6—*History of Modern Philosophy* 2 hours  
Entire Year

An outline of the development of modern thought from the Renaissance to our own times. Considerable attention is given to a few of the more important systems, such as those of Descartes, Locke, Berkeley, Hume, Kant, and Hegel. Selections from the authors themselves are studied critically with a view to getting clear conceptions of their leading principles.

7 and 8—*History of Philosophy, Advanced Course* 3 hours  
Entire Year

An intensive and thoroughly critical study of some one of the great masterpieces, such as Kant's "Critique of Pure Reason," Schopenhauer's "The World as Will and Idea," etc. A different work is chosen each semester, so that the course may be taken for the whole year or elected for either semester.

Prerequisite: Courses 1, 5, and 7.

9—*Ethics* 2 hours  
Second Semester

The treatment of this subject begins with a brief historical sketch—an outline of the main features of the most influential and representative ethical theories. The fundamental ethical concepts are then subjected to careful logical and psychological analysis, the results of which are brought to bear upon the more detailed study and criticism of the theories already studied in outline. Constructive work accompanies criticism.

Prerequisite: Course 1.

*10—Theism and Anti-Theistic Theories*

2 hours

## Second Semester

A course of lectures supplementary to the courses in Philosophy will be given, dealing with the scientific conception of the world, the design argument, materialism, agnosticism, and pessimism. Royce's "Religious Aspect of Philosophy," or Orr's "Christian View of God and the World," or Fairbairn's "Philosophy of Christianity," may be adopted as text or guide for discussions in this course.

## DEPARTMENT OF PHYSICS

FRED H. H. CALHOUN, Assistant Professor

The courses which are here presented are designed to give the student a knowledge of the general phenomena of Physics, the methods and instruments which are used in their investigation, and the scope of modern work in the department. Special attention is given in the elementary work to the practical relation of the subject and every effort made to develop a spirit of scientific inquiry. A sequence of several year's work is offered in the department.

*1—General Physics*

5 hours

## First Semester

Mechanics, Sound, Heat, will form the topics for the work of the first semester.

Two lectures or recitations, with six hours laboratory work per week.

*2—General Physics*

5 hours

## Second Semester

Light, Electricity and Magnetism will be taken up during the second semester. Special attention will be given to recent advances in Electricity.

Two lectures or recitations, with six hours laboratory work per week.

3—*Theoretical Physics* 3 hours  
First Semester

This course is intended for those who have completed Courses 1 and 2 and who desire to take up work in engineering. The theory of the experiments performed in the laboratory will be discussed in detail.

4—*Advanced Experimental Physics* 3 hours  
Second Semester

A continuation of Course 3. The experiments will be of a practical character and will consist for the most part of those relating to Light, Electricity and Magnetism.

## DEPARTMENT OF GEOLOGY

FRED H. H. CALHOUN, Assistant Professor

The work of this department is intended to give the student some knowledge of field Geology. As far as opportunity will permit, places of interest around Jacksonville will be visited and various topographic types studied.

1—*Physiography* 3 hours  
First Semester

The aim of this course is to illustrate the principles of science by applying them to the physical world. The course is divided into four parts: The Earth as a Globe, the Atmosphere, the Ocean, and the Land. Throughout the course the fact that man has a definite relation to his physical environment is developed.

Text: Gilbert and Bingham, *Physiography*.

2—*Geology*

3 hours

## Second Semester

An introductory course; it is adapted both for students who desire to follow up Geology exhaustively in field work or in engineering, and for those who wish to gain merely a general knowledge of the subject.

Text: Scott's Geology.

3—*Mineralogy and Petrology*

3 hours

## First Semester

In the Mineralogy the rock forming minerals will be taken up. As much of Crystallography as is needed to identify these minerals will be given in lectures. In Petrology the methods in which these minerals group themselves to form the different species of rocks will be discussed.

Text: Dana's Mineralogy.

4—*Advanced Geology*

3 hours

Reading will be done under the direction of the instructor. Lectures on recent advances along geological lines will be given.

## SOCIOLOGY

## PRESIDENT BARNES

The courses in Sociology are intended to give students a general survey of the social, intellectual, and physical development of the human race, in so far as this plays a part in man's relations to his fellows; and to present for consideration some of the problems in modern life, which result from the failure of individuals to fulfill their social obligations.

*1—Anthropology*

2 hours

First Semester

A general course of study in the development of man, including social characteristics and ethnology; but giving special attention to the growth of those religious, social, political, and economic institutions which have their origin in primitive society.

Texts: Taylor, *Anthropology*; Brinton, *Races and Peoples*.

*2—Sociology*

2 hours

Second Semester

A study of the forms of human association and the principles underlying them, together with a brief consideration of the various problems resulting from a dependent and defective class, and the different means employed for remedy and relief.

Texts: Gidding, *Principles of Sociology*; Wright, *Elements of Practical Sociology*.



# **Whipple Academy**

**Preparatory Department of**

**Illinois College**

# Whipple Academy

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## FACULTY

CLIFFORD WEBSTER BARNES, President

RICHARD OWEN STOOPS, Principal

*History*

JOHN GRIFFITH AMES, JR.

*English*

JOHN BISHOP TINGLE

*Chemistry*

JAMES BERTRAM OVERTON

*Biology*

JANE SHERZER, Dean of Women

*English*

FRED H. H. CALHOUN

*Physics and Algebra*

JOHN MARTIN REDPATH

*Greek*

STELLA LENORE COLE

*German*

WILLIAM OTIS BEAL

*Geometry*

CARL LYMAN WILLIS

*Latin and Oratory*

ISABEL SEYMOUR SMITH

*Biology*

ELSIE EVELYN COOPER

*Instructor*

MAY S. McCULLY

*Physical Culture*

GEORGE W. WHITE

*Tutor*

## MISCELLANEOUS INFORMATION

Whipple Academy, which was founded twenty-five years ago, has long held its place among the leading fitting schools of the west and its graduates have done much to reflect credit upon the instruction received. Connected as the Academy is with Illinois College, the students enjoy the exceptional advantage of receiving instruction from College professors, all of them men and women who have been chosen for their positions on account of marked ability in the branches in which they specialize. Up to 1903 Whipple Academy was a strictly boys' school, but now, owing to the merging of the Jacksonville Female Academy, its doors are open to boys and girls alike.

The Jacksonville Female Academy, organized in 1830, was the first school in the west for the education of young women. Its beginning and history are nearly contemporary with that of the beautiful city in which it is located. With its brilliant record and fine equipment, it adds much of strength and life to Whipple Academy, and the schools united will maintain the high standards of educated manhood and womanhood, which, through so many years, they have stood for separately.

The work of the Academy is distributed over three years. By a careful gradation of the work students are thoroughly prepared for college in this time. The courses are sufficiently elastic and the equipment ample to meet the entrance requirements of the leading colleges. Each year is divided into two terms or semesters of equal length.

## GOVERNMENT

Parents hesitate to have their children go out from the care of the home unless they are assured that their daily conduct will be guided by such restrictions as are necessary to protect them from the formation of habits hostile to their home training and detrimental to the greatest success in after life. It is intended that Whipple Academy shall be so governed that parents may feel absolutely safe in sending boys and girls of immature years here to prepare for college or for the practical affairs of life. That parents may know the manner of enforcing such safeguards, the scheme of government in Whipple Academy is here given.

*Rooms*—Boys may secure ample quarters in north Crampton Hall (see page 31), and girls are furnished comfortable rooms in Academy Hall (see page 32). A resident instructor oversees the conduct of the boys in Crampton and the Dean of Women has the girls under her personal supervision in Academy Hall. With the consent of the Principal, and subject to certain conditions, non-resident students may room in private families.

*Hours*—Satisfactory results can be secured only by requiring steady effort on the part of students. All periods between 9:15 and 12:00 and between 1:30 and 3:30, not spent in recitations, must be spent in Study Hall. The evening after seven o'clock must be spent by pupils in their own rooms. Ample time is allowed each day for recreation.

*Exceptions*—Students are permitted to be out of their rooms on Friday evenings to attend the meetings

of the literary societies, on Sunday evenings for church services, and on other evenings to attend social functions or entertainments such as the Principal may deem advisable. Girls living in Academy Hall may spend study hours there and are subject to certain necessary house rules.

*Freedom*—It is not intended that the personal freedom of any student shall be restricted, but the evil effects of tobacco and intoxicants on young people are so generally recognized that all indulgence of this nature is forbidden.

*Conduct*—Gentlemanly and womanly conduct is expected at all times.

*Requirements*—Resident instructors in Crampton and Academy Hall shall report any failures to comply with these rules. Heads of families with whom non-resident students live must report, in like manner, to the Principal, all shortcomings of the students under their care. Should such persons fail to do this, the students will not be permitted to remain with them. Students living out in the city must be safeguarded as carefully as those living in Crampton or Academy Hall.

*Discipline*—The breaking of any of these rules will involve censure or a penalty as the nature of the case may require. If necessary, suspension or even expulsion will be employed.

*Habits*—Accuracy, neatness, faithfulness and punctuality are essential to good work.

*Courses*—The regular course of study outlined in the catalogue is advised. Special courses may be arranged to meet the requirements of students who do not expect to enter College.

*Health*—The fact that good health is essential to success and the full enjoyment of life is recognized. Care is taken that students shall not over-burden themselves with work. Out-door exercise and physical training are encouraged and gymnasium work is required during the winter months.

*Reports*—At the end of every month a full statement of the student's work is sent to parents or guardians.

*Attendance*—Each student is required to be regular in his attendance upon chapel services, class exercises, and Study Hall; but to allow for such absences as may seem necessary, the following rules have been adopted: On the day following that in which an absence occurs, the student must present to the Principal an excuse for such absence signed by one of his parents, or the person with whom he is living. The only excuses accepted will be those for illness, absence from the city, or necessary work. Each unexcused absence subtracts three per cent. from the student's semester standing, and nine such absences drop him from the Academy. Students living in the dormitories must present excuses for absences approved by an instructor residing in the building. Every absence is reported to the Principal on the day it occurs. If a suitable excuse is promptly presented, the Principal will stamp his acceptance upon it and enclose it with the monthly report that the parent or guardian may know of all irregularities in attendance.

*Co-operation*—The Principal earnestly solicits the hearty co-operation of parents and guardians in enforcing the above rules. Any suggestion or kindly criticism bearing on any phase of academy life will be welcome.

## LITERARY SOCIETIES

The students of Whipple Academy support two literary societies, one for the boys and one for the girls. Philogian, the boys' society, has its home in a splendidly equipped room in Beecher Hall. This society meets on alternate Friday nights and is open to all the Academy boys. Tri Kappa, the girls' society, welcomes all Academy girls and has an appropriate home in Academy Hall. These societies offer excellent opportunities for thorough practice in declamation, essay, debate and parliamentary usage. Their meetings prove to be most helpful features in developing the students along lines of effective expression, and they receive hearty support.

## LIBRARIES

Students of the Academy have access to the College Library (see page 33). To supplement the work in English a reading course is provided, for which books may be drawn from the College Library and read under the direction of the Principal.

## PHYSICAL TRAINING (see page 35)

## RELIGIOUS LIFE

All students in Whipple Academy are required to attend brief chapel services every morning at nine. (See page 37.)

Church attendance on Sunday is encouraged, the student being permitted to select his own church home. The boys of Whipple are admitted to the Young Men's Christian Association of Illinois College, while the girls, in like manner, are welcomed to the Young Women's Christian Association of Illinois College. This draws



the Whipple students into close touch with the most forceful characters in the student body of the College and cannot fail to be most helpful.

### ADMISSION

Candidates for admission are supposed to have completed the English common branches. They must show certificates of promotion from the eighth grade of the public schools. Otherwise they must be prepared to pass careful examinations. Candidates for advanced standing must satisfy the Principal, by certificate or examination, that they are prepared for the work they desire to do. Certificates should indicate the text-book studied, the exact amount of work done, the time spent upon the subject, and the grade. In the sciences text-book work alone will not be accepted as a full equivalent for the courses in the Academy. As to the time of entrance, it is much better for the student to enter at the beginning of the first semester. An opportunity, however, is given for entering at the beginning of the second semester. Testimonials of character will be required of all students.

### SPECIAL STUDENTS

While it is primarily a preparatory school for Illinois College, Whipple Academy offers an elective course for those who wish to prepare for other institutions. Such subjects may be selected from Academy and College courses as are required for entrance to the Freshman class of the College which the special student expects to attend. Special students will be under all the regulations which apply to regular Academy students,

but they will not be given class standing or be permitted to compete for any class prizes.

## MATRICULATION

All candidates for admission must present themselves before a committee of the Faculty in the Study Hall of Whipple Academy at the time assigned for matriculation in the calendar, page 9. Those presenting satisfactory certificates from other schools will be granted matriculation cards without examination; those without satisfactory certificates will have assigned them the subjects in which they are to be examined and the place and time of such examination. Students must sign their matriculation cards and have them endorsed by the Principal before they can register.

REGISTRATION (see page 49)

TUITION, FEES AND OTHER FIXED CHARGES  
(see page 50)

GENERAL EXPENSES (see page 51)

## EXAMINATIONS AND GRADES

Frequent written tests in the different Academy courses are given and thorough written examinations are held at the end of each semester. Absence from an examination, except by reason of absolute necessity, will be regarded as failure in the course. When such absence involves a special examination the student is required to pay a fee of one dollar. The results of the examinations are combined with those of the recitations to decide the standing of the student.

The standing of a student is indicated by letters as follows:

A—Exceptionally good. B—Passed with credit. C—Passed. D—Conditioned. E—Failed.

Every condition must be removed during the semester following such condition, or it will be marked a failure. In case of failure in a required course, the course must be taken again the first succeeding semester that it may be offered.

## GRADUATION

The Whipple Commencement is held on Tuesday of Commencement week. Certificates are then awarded to all who have completed the regular work, and to those who, in the opinion of the Faculty, have creditably finished an elective course equal in amount and quality to the prescribed work. The fee for this certificate is five dollars, to be paid to the College Treasurer not later than one week before Commencement Day. At the Commencement Exercises, essays and declamations are given by the graduates. Students are appointed by the Faculty to represent the class, on the following considerations: First, general proficiency in the studies pursued; second, special excellence in rhetoric and elocution; third, gentlemanly conduct throughout the entire course. The following were appointments made for 1903:

William Thomas Harmon, Richard Stanley Tuthill, Jr., Thomas Earl Wylder, William Lester Simpson, Leland Edward Wemple, Roswell Oscott Post, Cole Yates Rowe.

## PRIZES

All prizes are offered each year. The Faculty is authorized, however, to withhold a prize in any instance in which reasonable competition is not manifested by members of the class entitled to compete.

In order to compete for any prize a student must be regularly enrolled in one of the Academy classes, must pursue the subject in which the prize is given with his class, and must maintain a good average in all his studies.

During the year 1904, prizes known as the Whipple Prizes, ten dollars for the first and seven dollars for second, will be given to the members of the Senior class for the best work in declamation. The Smith prize of fifteen dollars is also offered to the students of the Senior class for the best essay and composition work during the year. It is expected that all prizes will be expended for books or for some other object approved by the Principal. Since the publication of the last catalogue, prizes have been awarded as follows:

Senior Declamation, 1st Prize, R. O. Post, Jr.

Senior Declamation, 2nd Prize, W. E. Munson.

Senior Essay, C. Y. Rowe.

## SCHOLARSHIPS

To aid worthy students in obtaining an education the Whipple Scholarship and the Bishop Scholarship have been founded, each paying the tuition of one student. This aid, however, will be withdrawn from any student who does not maintain an average grade in all

his studies of at least 80 per cent., or who falls below 70 per cent. in any study.

Application for scholarships must be made in writing not later than May 15, and must contain an honest statement of the student's financial condition. New students must accompany this statement with testimonials of good moral character, and of intellectual ability.

Scholarships are usually assigned for one year and only to those who are regularly enrolled in one of the Academy classes. Students desiring to have their scholarships continued must make a new application in the regular form.

## SELECTION OF STUDIES

During the first year of the regular Academy course, the work is all required. In the Middle year the student may elect German or Biology, and in the Senior year he may elect Latin, Greek or German. When a student desires to take two years of Latin and two years of German he may elect Biology or Physics in the Senior year. The course in Whipple is quite elastic, enabling the student to so select his studies that he may fit himself for any college. Eighteen hours a week are required of all students.

To accommodate those who do not wish to prepare for college, a Liberal Arts course is given, studies in which may be selected from those offered in the Academy and Conservatory. In order to secure a certificate of graduation in the Liberal Arts course the student must take at least eighteen hours a week for three school years.

# HOURS OF RECITATION

	JUNIOR YEAR	MIDDLE YEAR	SENIOR YEAR
8:00	Latin	Latin	English
9:15	Algebra	German	Greek
10:10	English	English	Latin
11:05	Study Hall	Geometry	History
1:30	Study Hall	Biology	Physics
2:30	History	Biology	Physics German
3:30	Gymnasium Bible—W.	Gymnasium Bible—W.	Gymnasium Bible—W.

## COURSES OF INSTRUCTION

## BIOLOGY

JAMES BERTRAM OVERTON

1—*Zoology* 5 hours  
First Semester

The simplest forms of animal life; the more complex forms of animal life; reproduction and the development of sex; function and structure; the life cycle; the struggle for existence; adaptation animal communities; symbiosis and degeneration; protective resemblances; geographical distribution. Middle year. Three recitations and four hours of laboratory work per week.

Text: Jordan and Kellogg, Animal Life.

2—*Botany* 5 hours  
Second Semester

The elementary structure and functions of the various organs and parts of plants; the structure and arrangement of leaves; position and arrangement of leaves in relation to light; arrangement of shoots; relation of arrangement of shoots to habit and growth of plants; relation of roots to soil and moisture; devices for pollination; plant societies; principles of plant distribution. Three recitations and four hours of laboratory work per week.

Text: Coulter, Plant Relations.



## ENGLISH

JOHN GRIFFITH AMES, JR.

*1 and 2—Rhetoric and Composition* 5 hours  
Entire Year

Review of Grammar, Rhetoric, composition; drill in reading. Lowell's "Vision of Sir Launfal," Coleridge's "Ancient Mariner," George Eliot's "Silas Marner," Scott's "Ivanhoe."

Text: Scott and Denney, Elementary English Composition.

JANE SHERZER

*3 and 4—Rhetoric and Literature* 3 hours  
Entire Year

Rhetoric, composition, drill in reading. Sir Roger de Coverly Papers, Goldsmith's "Vicar of Wakefield," Carlyle's "Essay on Burns," Tennyson's "The Princess."

*5 and 6—Literature and Declamation* 4 hours  
Entire Year

Physical Culture; drill in public speaking; preparation of essays. Shakespeare's "Macbeth," "Merchant of Venice," and "Julius Cæsar," Milton's "Minor Poems," Burke's "Speech on Conciliation," Macaulay's "Essays on Milton and Addison."

## GERMAN

STELLA LENORE COLE

Same as College German 1 and 2.

## GREEK

JOHN MARTIN REDPATH

Same as College Greek 1 and 2.

## HISTORY

RICHARD OWEN STOOPS

1—*Greek History* 3 hours  
First Semester

A history of Greek life and culture from the earliest accounts of the race to its conquest by the Romans.

Text: Botsford, Ancient History.

2—*Roman History* 3 hours  
Second Semester

The history of Rome from the earliest times to the fall of the Empire.

Text: Botsford, Ancient History.

3—*English History* 4 hours  
First Semester

A brief history of the English people from the Roman conquest to the present time.

Text: Montgomery, Leading Facts of English History.

4—*American History* 4 hours  
Second Semester

A brief history of the discovery and colonization of the western continent. United States history from 1775 to the present time.

Text: Adams and Trent, History of the United States.

## LATIN

RICHARD OWEN STOOPS

- 1—*Latin Lessons* 5 hours  
First Semester

A thorough drill in Latin forms and elementary syntax.

Text: *Bellum Helveticum*.

- 2—*Caesar* 5 hours  
Second Semester

Continuation of Course 1. *Cæsar*; Gallic War, Book I, Chapters 1-29. Prose composition based on text.

Text: *Bellum Helveticum*.

CARL LYMAN WILLIS

- 3—*Caesar Continued* 5 hours  
First Semester

*Cæsar*; Gallic War, Books II, III and IV. Composition and Classical Geography.

Text: Lowe and Ewing's *Cæsar*.

- 4—*Cicero* 5 hours  
Second Semester

Six orations. Prose composition. Roman life and customs.

Text: Johnston, *Cicero*, Selected Orations and Letters.

JOHN MARTIN REDPATH

- 5—*Vergil* 5 hours  
First Semester

*Æneid*, Books I, II, III. Prosody, Prose composition.

Text: Knapp, *Æneid*.

6—*Vergil*

5 hours

Second Semester

*Æneid*, Books IV, V, VI. Classical Mythology.Text: Knapp, *Æneid*.

## MATHEMATICS

FRED H. H. CALHOUN

WM. O. BEAL

1 and 2—*Algebra*

5 hours

Entire Year

Fundamental operations, factoring, highest common factor, lowest common multiple, fractions, simple equations of first degree, inequalities, indeterminate equations, theory of exponents, square root, cube root, special higher roots, radicals including imaginaries, quadratic equations, simultaneous quadratic equations, special form of the higher equations, ratio and proportion, arithmetical and geometrical series, binomial theorem for any rational exponent. Special attention is given to accuracy, rapidity and freedom from working by rule. Mr. Calhoun.

Text: Wells, *Essentials of Algebra*.3—*Mechanical Drawing and Mensuration*

5 hours

First Semester

Use and care of instruments, geometrical constructions, lettering, drawing to scale, and orthogonal projections. Measurements and calculation of lengths, angles, areas and volumes by both graphical and arithmetical processes.

The student will be required to purchase such drawing instruments as the instructor shall deem necessary for the work. Mr. Beal.

Text: Campbell, *Observational Geometry*.

4—*Plane Geometry*

5 hours

Second Semester

This course arranges in logical order the facts with which the student has become familiar in Course 3. Much emphasis is laid upon original work in proving theorems. Mr. Beal.

Text: Holgate, *Elementary Geometry*.

## PHYSICS

FRED H. H. CALHOUN

1 and 2—*Elementary Physics*

5 hours

Two Semesters

Properties of matter; mechanics of solids; mechanics of fluids; heat; magnetism and electricity; sound; light. The course is a combination of recitations, problems, and laboratory work. The student keeps a note-book, according to forms given, of seventy-five quantitative experiments performed by himself.

Text: Carhart and Chute, *Elements of Physics*.



# **The Conservatory of Music**



# The Conservatory

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## FACULTY

CLIFFORD WEBSTER BARNES, President

LOUIS GERARD STURM, Director  
*Piano, Organ and Theory*

MRS. HELEN AYERS BULLARD, Dean  
*Piano and Organ*

MRS. MARGARET KIRK KUHNE  
*Piano*

MAMIE ALBERTA LA ROCK  
*Piano*

GRACE ELLIOTT DUDLEY  
*Voice, Sight Reading*

MME. ELIZABETH ZUR RHANEK-STURM  
*Voice*

MADELEINE WHITTIER PETIT  
*Violin, Theory and Musical History*

## GENERAL STATEMENT.

The Illinois Conservatory of Music is one of the oldest and best known schools of its kind in the state, having been established in 1871, and through all these years maintained an exceptionally high standard of work. In January, 1903, it was merged with Illinois College, and has therefore been made doubly strong by the financial and educational support of that older institution. It has very commodious quarters at Academy Hall, Church street, where there are practice rooms with twenty-five pianos, a large recital hall with two grand instruments for concert use, and the various offices of the Conservatory.

## ADMISSION

Students will be admitted to work in the different departments of the Conservatory at any time, but it is always advisable, if possible, to enter at the beginning of a semester. Work in the Theoretical branches, Harmony, Counterpoint, etc., and in Musical History, being done in classes, can only be taken up at the beginning of a semester. All students are examined on entering by the Dean, and assigned to work according to their proficiency.

## ADVANCED STANDING

Students who come from other conservatories or from private teachers will be given credit for work done, and may receive such advanced standing as their certificates or the quality of their work will warrant.

## REGISTRATION

Students upon entering must register with the Dean of the Conservatory, giving their home and school address, the name of their parent or guardian, and their choice of work. Registration is not completed nor the student admitted to work until a satisfactory settlement has been made with the College Treasurer for all the regular charges involved.

## TUITION, FEES AND OTHER FIXED CHARGES

Tuition, fees and other fixed charges have been made as low as possible so that no change can be made from the following schedule. A limited number of scholarships for especially deserving pupils are offered each year, which will in part pay the tuition charges.

## PIANO

	Assistant Teachers.	Head of Department.
Two lessons per week, for		
a semester - -	\$30.00	\$45.00
One lesson per week, for a		
semester - -	17.00	25.00
Single lessons - - -	1.50	1.75

## VOCAL

Two lessons per week, for a semester - -	\$50.00
One lesson per week, for a semester - - -	30.00
Single lessons - - - - -	2.00

## VIOLIN

Two lessons per week, for a semester - -	\$45.00
One lesson per week, for a semester - - -	25.00
Single lessons - - - - -	1.75

## ORGAN

Two lessons per week, for a semester	\$45.00	\$50.00
One lesson per week, for a semester	25.00	30.00
Single lessons - - - - -	1.75	2.00
Harmony, Counterpoint, Composition, etc., in classes of four, two lessons per week, for a semester - - - - -		\$12.00
Musical History, in classes, one lesson per week, for a semester - - - - -		5.00
Sight Reading, in classes, for a semester	-	2.00
Piano rent, for a semester - - - - -		10.00

A schedule of expenses for board, lodging, etc., will be found elsewhere in this Catalogue. (See page 51.)

## ATTENDANCE

Students are expected to be regular and prompt in attendance at lessons and classes; no allowance will be made for lessons missed through fault of the student except in cases of protracted illness.

## REQUIREMENTS FOR GRADUATION

A Teacher's Certificate will be given to any student who satisfactorily completes the third collegiate year in any of the principal courses, together with Courses 1 and 5 in the Theoretical Department, and who has given one public recital in the Conservatory.

A diploma of graduation will be awarded to any student who satisfactorily completes the entire collegiate course in any of the principal departments, together with Courses 1 and 5 in the Theoretical Department, and who, during the Senior year, has given one public recital from memory.

Courses 2, 3, and 4 in the Theoretical Department are not required for graduation and can only be taken by students who show aptitude for the work. Students who complete these courses, however, will receive special honorable mention upon graduation.

Students for graduation in the Vocal Department must have had sufficient piano work to enable them to play their own accompaniments.

### THE BACHELOR OF MUSIC DEGREE

Students who complete one of the principal courses in music (piano, organ, voice, or violin), together with the entire theoretical course in music, and who in addition have taken certain literary courses (to be specified) may become candidates for the Degree of Bachelor of Music. The required literary courses are to be taken in the College, and the degree will be conferred by the College, under the same conditions as any of the literary degrees.

### MISCELLANEOUS INFORMATION

All candidates for graduation in Piano must take the work of the Senior year with the head of that department.

All Conservatory students are required to take a course in Sight Reading, in classes under the direction of the Vocal Teacher.

The courses in Harmony and Musical History must be taken during the first and second collegiate years of work in the principal courses.

Regular students' recitals will be given throughout

the year in connection with the Conservatory work; all students are expected to appear in these recitals whenever requested by the teacher.

Members of the Conservatory Faculty will give public recitals from time to time which all students are expected to attend.

Students in any of the instrumental departments are expected to practice from one and one-half to four hours daily, according to grade.

Students in the Vocal Department are expected to practice from one-half to three hours daily, as directed.

All students are required to confine themselves strictly to the work assigned by the teacher.

## COURSES OF INSTRUCTION

## PIANO DEPARTMENT

LOUIS GERARD STURM

MRS. HELEN AYERS BULLARD

MRS. MARGARET KIRK KUHNE

MAMIE ALBERTA LAROCK

The full course in this department requires seven years' work, three of which are preparatory.

The preparatory course includes formation and position of fingers, hands, wrists, and arms, properties of touch, principles of technique, thorough drill in scale, chord, and arpeggio playing, and exercises in rhythm, accent, and expression.

Music used: Herz, Scales and Exercises; Loeschhorn, Op. 65 and 66; Lemoine, Op. 37; Heller, Op. 45; Bertini, Op. 29 and 32; Czerny, Op. 299, Books 1 and 2; Bach's Little Preludes; Sonatinas, easier Sonatas, and Compositions by Clementi, Kuhlau, Haydn, Mozart, Beethoven, and modern composers.

## COLLEGIATE COURSE

*1—First Year*

Studies in development of technique; Czerny, Op. 299, Books 3 and 4; Czerny, Octave Studies; Cramer, Studies; Bach, Two Voiced Inventions; Haydn, Mozart, and easier Beethoven Sonatas; Mendelssohn, Songs Without Words; smaller compositions of classical and modern composers.



*2—Second Year*

Daily technique; Czerny, Op. 740 (selections); Kullak's Octave Studies, Book 1; Bach, Preludes and Fugues; Sonatas, Concertos, and Compositions, both classical and modern.

*3—Third Year*

Selections; Clementi, Gradus ad Parnassum; Moscheles, Op. 70; Kullak, Octave Studies, Book 2; Bach, Well-Tempered Clavichord; Sonatas and Concertos by Weber, Mendelssohn, Beethoven, etc.; selections from works of Bach, Chopin, Schubert, Schumann, Rubinstein, Liszt, Moszkowski, Scharwenka, and other modern composers.

*4—Fourth Year*

Selections; Clementi, Gradus ad Parnassum; Bach, Preludes and Fugues; Chopin, Henselt, and Rubinstein, Etudes; larger works, both solo and ensemble, of the great masters, classical and modern.

## VOCAL DEPARTMENT

GRACE ELLIOTT DUDLEY

MME. ELIZABETH ZUR RHANEK-STURM

The preparatory course includes placing of the voice and proper position of the mouth and throat; Randegger's Singing; fifty Concone Studies; simple songs for accent, rythm, and proper pronunciation.

## COLLEGIATE COURSE

*1—First Year*

Voice production; Randegger's Singing continued; Concone Studies; Songs of Mendelssohn and Schubert, and of good modern composers.

*2—Second Year*

Voice production: Viardot-Garcia's Hour of Study, Book 1 for technical work; twenty-four Panofka Studies; songs of German, French, and English composers, and simple selections from operas and oratorios.

*3—Third Year*

Voice Production: Viardot-Garcia's Hour of Study, Book 2; Bordogni's Studies for soprano or tenor; Sieber or Bordese for alto or bass; selections from oratorios, and from French, German, and Italian operas; songs from German, French, English, and Italian composers.

*4—Fourth Year*

Lutgen's Opera-Vocalisen; Italian, French, German, English, and American songs; solos and concerted work from the modern as well as standard operas and oratorios.

## VIOLIN DEPARTMENT

## MADELEINE WHITTIER PETIT

The preparatory course includes violin methods by Hermann, Kayser, Sitt, Mazas, etc.; Schradieck's Technical Studies; Etudes by DeBeriot and others; easy solos.

## COLLEGIATE COURSE

*1—First Year*

Etudes by Kreutzer, Mazas, Fiorillo, etc.; Sonatas by Mozart, Handel, Beethoven, and others; Concertos by Viotti, Rode, Kreutzer, DeBeriot.

*2—Second Year*

Etudes by Gavinies, Rode, and Campagnoli; Sonatas by Beethoven, Grieg, etc.; Concertos by Spohr, Bruch, Vieuxtemps, Molique, etc.

*3—Third Year*

Caprices by Paganini; Concertos by Bruch, Mendelssohn, Saint Saens, Joachim; ensemble work.

*4—Fourth Year*

Bach, Sonatas; Concertos by Beethoven, Bruch, Brahms, Tschaikowsky, Dvorak, Saint Saens; ensemble work.

## ORGAN DEPARTMENT

LOUIS GERARD STURM

MRS. HELEN AYERS BULLARD

*Organ Course*

Students desiring to take up the study of the Organ must have completed the first collegiate year's work on the piano in order to have acquired the requisite amount of technical facility. The course for the Organ will then include three years of collegiate work, embracing technical exercises and studies for the correct use of the manuals and pedals; Rink's Organ School, 6 books, Buck's Pedal Phrasing Studies, and the Organ works of Handel, Bach, Mendelssohn, Guil-mant, Widor, and other German, French, English, and American composers. Special attention will be given to the use of the Organ for church work.

## THEORY

LOUIS GERARD STURM

MADELEINE WHITTIER PETIT

*1—Harmony*

Two lessons per week through three semesters.

Text-books by Emery, Boise, Jadassohn and Busser, with additional exercises.

*2—Counterpoint*

Two lessons per week through one semester.

Jadassohn's Counterpoint.

*3—Fugue*

Two lessons per week through one semester.

Jadassohn's Canon and Fugue.

*4—Musical Analysis*

Supplementary to Courses 2 and 3.

*5—Musical History*

Once a week through two semesters.

*6—Composition*

Once a week through two semesters.

# **School of Art**

## **School of Art**

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### **FACULTY**

**CLIFFORD WEBSTER BARNES, President**

**E. LAURA RIPLEY, Head of the Department**

## GENERAL STATEMENT

The Art Department of the Jacksonville Female Academy has long been known for its high class work and the number of talented artists which it has helped to produce. When the Academy became affiliated with Illinois College, this department was given the rank of a separate school, and the scope of its work was so enlarged as to meet fully the requirements of the day.

## ADMISSION

Students will be admitted to work in the different courses of study at any time, but it is always advisable, if possible, to enter at the beginning of a semester.

## REGISTRATION

Students upon entering must register with the Head of the Department, giving their home and school address, their parent or guardian (if a minor), and their choice of work. Registration is not completed nor the student admitted to work until a satisfactory settlement has been made with the College Treasurer for all the charges involved.

## TUITION, FEES AND OTHER FIXED CHARGES

Tuition, fees, and other fixed charges have been made as low as possible and no change can be made from the following schedule. A limited number of scholarships for especially deserving pupils are offered each year, which will in part pay the tuition charges.



Tuition, for a semester	-	-	-	-	\$15.00
Special Course for children, for a semester					12.00
Single lessons	-	-	-	-	1.00

A schedule of expenses for board, lodging, etc., will be found elsewhere in this Catalogue. (See page 51.)

### ATTENDANCE

Students are expected to be regular and prompt in attendance at lessons and classes; no allowance will be made for lessons missed through fault of the student except in case of protracted illness.

## COURSES OF INSTRUCTION

Both class and individual instruction will be given. The course of study will include:

*1—Academic Art*

(a) Drawing and sketching in charcoal, pencil, and pen and ink from casts, still life and the model.

(b) Painting in oil and water color from nature forms and still life.

*2—Composition and Design, and**3—Applied Art*

These two courses are correlated and can be given either separately or together. A certain knowledge of at least the *fundamental principles of Art* has become almost a necessity to all well-educated persons. The cultivation of the mind resulting therefrom, together with the power gained of intelligent appreciation of all that is beautiful both in nature and art make this study most valuable and delightful. The work consists of a study of the principles of fine art (as arranged by Mr. Arthur W. Dow of Pratt Institute, Brooklyn, New York City) illustrating the same by original work. As a later issue in the course these designs may be applied to various problems in weaving, basketry, stenciling, and modelled leather. A class criticism will be given once a week. Under the direction of the instructor individual work may go on at any time during the week, in the studio or at home. This course is best handled by those who have some knowledge of color and drawing.

*4—Color and Design as applied to Home Art*

As indicated, this work will bear directly upon art

in the home. We as a nation have not an art appreciation. It lies with our mothers and our young people of today to foster this love and appreciation for all that is fine in art. A study of principles as found in the work of old masters and nations of established repute, with an application of these to home decoration and construction will be the general course pursued. As a unique feature of the course a color scheme for a five-room house with suitable furnishings, will be required of each pupil.

#### *5—Children's Course in Drawing and Design*

A Saturday morning course in elementary drawing and color work will be given. The instruction will be individual, that the pupil may advance as rapidly as his progress will allow. Industrial Art (Basketry, Weaving and Bead Work) will be given if there is sufficient demand.

#### *6—Basketry and Weaving*

A course in Reed and Raffia Basketry will be presented. Individual instruction is a feature of this course. Several interesting problems in weaving will be presented as a sequel to the basketry course.

# Register

## DEGREES CONFERRED, 1903

## BACHELORS OF ARTS

William Adams Lippincott	Sumner White
William Murray Goff	Joseph Erastus Winterbottom
George Irving Scott	

## BACHELORS OF PHILOSOPHY

Ralph Irvin Dunlap	George William Watson
William George Goebel	

## BACHELORS OF SCIENCE

Homer Ernest Fullenwider	Oswell Laurie McNeil
Abraham R. Gregory, Jr.	Duval S. O'Neal
Arthur Oliver Lindsay	

## HONORARY DEGREES

## MASTERS OF ARTS

Carl Ellsworth Black	Frank Parsons Norbury
David Robertson Forgan	Arthur Dana Wheeler

## DOCTOR OF HUMANITIES

Edward Paul Baillot

## DOCTOR OF DIVINITY

M. Bross Thomas

## DOCTOR OF LAWS

Christian Cecil Kohlsaatt

## COMMENCEMENT SPEAKERS

June, 1903

George Irving Scott	Joseph Erastus Winterbottom
George William Watson	Sumner White
Arthur Oliver Lindsay	

## CLASS HONORS

## MAGNA CUM LAUDE

Sumner White

## CUM LAUDE

William George Goebel	George Irving Scott
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# Students Enrolled

1903-4

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## THE COLLEGE

### SENIORS

Walter Henry Balke	<i>Jacksonville</i>
364 West College Ave.	
Edward Philip Brockhouse	<i>Chapin</i>
23 Crampton	
Charles Moseley Eames	<i>Jacksonville</i>
622 West State St.	
Arthur Frederick Ewert	<i>Jacksonville</i>
331 East State St.	
Melville Talbot Kennedy	<i>Jacksonville</i>
1030 Grove St.	
Benjamin Franklin Lane	<i>Riggston</i>
1026 West College Ave.	
Evert Dean Martin	<i>Jacksonville</i>
500 West Morton Ave.	
Lawrence Newton Wylder	<i>Jacksonville</i>
513 North Church St.	

### JUNIORS

Walter Bellatti	<i>Jacksonville</i>
605 West College Ave.	
Edward Tanner Brown	<i>Waverly</i>
316 Woodland Place	
Clarence Edwin Carter	<i>Jacksonville</i>
1042 Grove St.	
Frederick Putnam Cowdin	<i>Chapin</i>
28 Crampton	

Frederick Munroe Duckles	<i>Carlinville</i>
28 Crampton	
Heye Eagen Eilers	<i>Gillespie</i>
26 Crampton	
Robert Emmet Harmon	<i>Jacksonville</i>
409 East North St.	
Edward Dronsfield Jackson	<i>Jacksonville</i>
832 South Clay Ave.	
Joseph Hodge Pires	<i>Jacksonville</i>
1074 North Main St.	
Lathrop Huntington Ward	<i>Jacksonville</i>
1025 West College Ave.	

## SOPHOMORES

James Howard Brown	<i>Jacksonville</i>
138 Sandusky St.	
Charles Arthur Carriel	<i>Jacksonville</i>
1152 West College Ave.	
Eva Mace Cochran	<i>Jacksonville</i>
210 West College Ave.	
George Bone Conover	<i>Virginia</i>
18 Crampton	
Harry Struble Freeman	<i>Jacksonville</i>
Institution for the Blind	
Herbert Arthur Graves	<i>Neosho, Mo.</i>
616 West College Ave.	
Erle Josiah Hurie	<i>Petersburg</i>
236 Park St.	
Wiley Linn Hurie	<i>Petersburg</i>
236 Park St.	
Roy Zinn McKown	<i>Athens</i>
1011 West College Ave.	



Emily Ainslie Moore	<i>Jacksonville</i>
856 West State St.	
Eva C. Norlsch	<i>Jacksonville</i>
146 Caldwell St.	
Antoinette Pires	<i>Jacksonville</i>
1074 North Main St.	
Ira Eneas Scott	<i>Franklin</i>
1123 West State St.	
Joseph Bowers Sinclair	<i>Ashland</i>
1042 Grove St.	
Frederick Linn Spencer	<i>Jacksonville</i>
Mound Road	
John A. Logan Tontz	<i>Highland</i>
21 Crampton	
Ray George Van Gundy	<i>Chapin</i>
25 Crampton	
Jay Earl Wemple	<i>Waverly</i>
1260 West College Ave.	
Oliver Bliss Williams	<i>Quincy</i>
1025 West College Ave.	

## FRESHMEN

Harold Hemingway Brook	<i>Jacksonville</i>
1130 West Lafayette Ave.	
Thomas Bernard Butler	<i>Jacksonville</i>
767 South Church St.	
Sarah Louise Capps	<i>Jacksonville</i>
504 North Church St.	
Leah Cassell	<i>Jacksonville</i>
401 West College St.	
Bessie Harriet Clemmons	<i>Jerseyville</i>
Academy Hall	

Etta Marie Clemmons	<i>Jerseyville</i>
Academy Hall	
Virginia Louise Conover	<i>Virginia</i>
Academy Hall	
Frank Edmond Coultas	<i>Murrayville</i>
School for the Deaf	
Mabel P. Cowdin	<i>Chapin</i>
Academy Hall	
Anna Edith Day	<i>Jacksonville</i>
764 Lafayette Ave.	
Susan Francis Eames	<i>Jacksonville</i>
622 West State St.	
Jennie Eldred	<i>Thomasville</i>
Academy Hall	
Richard Pierce Evans	<i>Franklin, O.</i>
10 Crampton	
Lela Fisher	<i>Hillsboro</i>
Academy Hall	
John Washington Graff	<i>Ashland</i>
830 West College Ave.	
William Thomas Harmon	<i>Jacksonville</i>
409 East North St.	
Julia Edna Hatch	<i>Griggsville</i>
1328 Mound Ave.	
Thusnelda Heegard	<i>Elmhurst</i>
1225 West College Ave.	
Philip John Kennedy	<i>Jacksonville</i>
1030 Grove St.	
Charles William Kneeland	<i>Griggsville</i>
871 West College Ave.	
Luther Lashmet	<i>Jacksonville</i>
414 North Fayette St.	

Ida Belle Lave	<i>Breed's Hill</i>
846 Grove St.	
Roy A. Miller	<i>Atlanta</i>
846 Grove St.	
Mabel Moore	<i>Clinton</i>
Academy Hall	
William Edwin Munson	<i>Beardstown</i>
19 Crampton	
Ethel Naylor	<i>Albion</i>
414 Lincoln Ave.	
Ward Newman	<i>Jacksonville</i>
809 East State St.	
Chester Arthur Nunes	<i>Jacksonville</i>
415 East College Ave.	
George Julius Orear	<i>Jacksonville</i>
1226 West College Ave.	
Marcy Wood Osborne	<i>Jacksonville</i>
1220 West College Ave.	
Rex Hervey Palmer	<i>Beardstown</i>
1039 West College Ave.	
Roswell Olcott Post	<i>Jacksonville</i>
202 Kosciusko St.	
Lucinda Maude Rathbone	<i>Harrisburg</i>
Academy Hall	
Walter Valentine Rathbone	<i>Harrisburg</i>
North corner Pine St.	
Lillian Gertrude Ray	<i>Jacksonville</i>
152 Caldwell St.	
Edna Rothschild	<i>Petersburg</i>
Academy Hall	
Cole Yates Rowe	<i>Jacksonville</i>
1152 West State St.	

Paul James Secrest	<i>Petersburg</i>
222 Park St.	
Sara Preston Shepherd	<i>Hannibal, Mo.</i>
Academy Hall	
William Lester Simpson	<i>Mt. Pulaski</i>
129 Prospect St.	
Abner Frank Spencer	<i>Jacksonville</i>
1036 North Fayette St.	
Carrie Sprecher	<i>East St. Louis</i>
Academy Hall	
Carl Clifford Stephenson	<i>Sparta</i>
305 Woodland Place	
Ross McGhee Stiff	<i>Harrisburg</i>
1042 Grove St.	
Joseph Oscar Stith	<i>Petersburg</i>
857 West State St.	
Katherine Pauline Suydam	<i>Canton</i>
Academy Hall	
Florida Easter Tolbert	<i>Chambersburg</i>
Academy Hall	
Howard Thompson	<i>Macomb</i>
1039 West College Ave.	
Chester H. VanWinkle	<i>Jacksonville</i>
812 West North St.	
Merle Watson Vittum	<i>Norris</i>
1061 Grove St.	
Wilbur Charles Williams	<i>Chapin</i>
25 Crampton	
Catherine Jane Wilson	<i>Perry</i>
Academy Hall	
Thomas Earl Wylder	<i>Jacksonville</i>
513 North Church St.	

## SPECIAL STUDENTS

Alden Brown	<i>Jacksonville</i>
1122 West State St.	
Mansel Dudley	<i>Jacksonville</i>
430 Superior Ave.	
Ada Ruth Eldred	<i>Carrollton</i>
Academy Hall	
Leonore Fernandes	<i>Jacksonville</i>
244 North Pine St.	
Annie W. Funkhouser	<i>Jacksonville</i>
Cor. West State St. and Webster Ave.	
Adolphus Eugene Gunderson	<i>Houghton, Wis.</i>
College Club House	
Sarah Dwight King	<i>Jacksonville</i>
620 West College Ave.	
May Shields McCully	<i>Jacksonville</i>
280 Sandusky St.	
Marshall Paul McDonald	<i>Jacksonville</i>
932 West State St.	
Frank Stuart McKinney	<i>Chapin</i>
1011 West College Ave.	
Barney E. Miller	<i>Kinderhook</i>
West State St.	
Lois Margaret Owen	<i>Jacksonville</i>
851 Grove St.	
Lee Ayers Piggott	<i>Warsaw</i>
1042 Grove St.	
Joseph Ray Stickel	<i>Greenfield</i>
19 Crampton	
Leland Edward Wemple	<i>Waverly</i>
1260 West College Ave.	

## WHIPPLE ACADEMY

## SENIORS

Carol Frances Brown	<i>Jacksonville</i>
866 West College Ave.	
Grace Burns	<i>Sweetwater</i>
305 Woodland Place	
Gladys Louise Cochran	<i>Jacksonville</i>
210 West College Ave.	
Carl Oscar Gordon	<i>Lynnville</i>
921 West State St.	
Lois Lucile Harris	<i>Jacksonville</i>
923 South Main St.	
Charlotte Calhoun Hayden	<i>Jacksonville</i>
920 Grove St.	
William Munroe Huffman	<i>Beverly</i>
475 Lincoln Ave.	
Mary Gwendolyn Masters	<i>Jacksonville</i>
South Main St.	
George J. Moore	<i>Bentonville, Ark.</i>
1011 West College Ave.	
M. Louise Robertson	<i>Jacksonville</i>
Mound Road	
Agnes Maude Rudin	<i>Trinidad, B. W. I.</i>
Academy Hall	
Frank Barlow Schermerhorn	<i>Jacksonville</i>
239 Webster Ave.	
Albert Carlton Shibe	<i>East Bernard, Tex.</i>
253 Pine St.	
Charles Rundell Stephens	<i>Jacksonville</i>
210 North Prairie St.	

Katie Taylor		<i>Virginia</i>
	Academy Hall	
Golda Van Dyke		<i>Greenup</i>
	243 Prospect St.	
George Washington Vierra		<i>Hilo, Hawaii</i>
	353 West Morgan St.	

## MIDDLE YEAR

Helen Louise Ayers		<i>Jacksonville</i>
	1052 West State St.	
Warren Case, Jr.		<i>Jacksonville</i>
	1017 West College Ave.	
Robert Henderson Covington		<i>Murrayville</i>
	13 Crampton	
Glover William Crum		<i>Easton</i>
	7 Crampton	
Libbie May Ellis		<i>Manchester</i>
	Academy Hall	
George Frederick Goebel		<i>Meredosia</i>
	513 North Church St.	
Edgar Earle Gordon		<i>Winchester</i>
	1062 West College Ave.	
Claud Augustus Grove		<i>Jacksonville</i>
	R. R. No. 4	
William Hook		<i>Jacksonville</i>
	1042 West State St.	
William J. Kirby		<i>Jacksonville</i>
	414 Lincoln Ave.	
Clara Catherine Moore		<i>Jacksonville</i>
	856 West State St.	
Louise Nance		<i>Petersburg</i>
	134 Sandusky St.	
Richard Yates Rowe		<i>Jacksonville</i>
	1152 West State St.	



Henry Paul Samuell	<i>Jacksonville</i>
Central Hospital for the Insane	
Marion Richard Sykes	<i>Beverly</i>
7 Crampton	
Paul Perry Thompson	<i>Jacksonville</i>
1106 West College Ave.	
George W. White	<i>Woodson</i>
252 Park St.	
Frank Lee Wilson	<i>Jacksonville</i>
945 East State St.	
Fred Gooding Walter	<i>Jacksonville</i>
R. R. No. 4	

## JUNIORS

Clifford Adams	<i>Jacksonville</i>
South Church St.	
Margaret Ayers	<i>Jacksonville</i>
906 West State St.	
William Abram Baxter	<i>Ashland</i>
814 West College Ave.	
Frank H. Blair	<i>Cutler</i>
523 West State St.	
Wade Cooper	<i>Jacksonville</i>
721 East State St.	
Francis R. Davin	<i>Pleasant Plains</i>
830 West College Ave.	
Mary Velma Davis	<i>Ashland</i>
702 West College St.	
Carrie Dinsmore	<i>Time</i>
352 West Court St.	
John Carlyle Dinsmore	<i>Time</i>
352 West Court St.	
Charles T. Embleton	<i>Fort Benton, Mont.</i>
5 Crampton	

George Lawrence Foster	<i>Enumclaw, Wash.</i>
11 Crampton	
Jessie Harrison Fox	<i>Virginia</i>
619 South Prairie St.	
Ralph Moore Goltra	<i>Jacksonville</i>
618 South Main St.	
Bessie Ella Harrison	<i>Sinclair</i>
516 East College Ave.	
Lilian Havenhill	<i>Jacksonville</i>
118 Westminster	
Leila Clare Hayden	<i>Milton</i>
150 West Morton Ave.	
Laura Mae Huffman	<i>Beverly</i>
Academy Hall	
Edith Jordan	<i>Jacksonville</i>
Academy Hall	
Michael Fletcher McDonald	<i>Brownstown</i>
218½ East State St.	
Clifford Funk Mills	<i>Bluffs</i>
1069 North Diamond St.	
Eva Leota Mortimer	<i>Woodson</i>
Academy Hall	
Mattie Lorinda Orr	<i>Argenta</i>
Academy Hall	
Cordelia Georgia Pierson	<i>Jacksonville</i>
520 South Diamond St.	
Fred M. Rook	<i>Woodson</i>
South Main St.	
Lloyd Brown Sale	<i>Murrayville</i>
13 Crampton	
George Roy Scott	<i>Jacksonville</i>
218½ East State St.	
Leslie Rockwell Stowell	<i>Newmanville</i>
201½ West Morgan St.	

Harry Thomas Strawn	<i>Jacksonville</i>
301 West College Ave.	
William Holding Taylor	<i>Sinclair</i>
1051 West College Ave.	
Anna Elizabeth Thomas	<i>Thomasville</i>
Academy Hall	
James Charles Towns	<i>Melbourne, Australia</i>
9 Crampton	
Edwin Charles Vickery	<i>Jacksonville</i>
411 West State St.	
Ulysses Wayne Wright	<i>Stanford</i>
11 Crampton	
Charles Albert Young	<i>Jacksonville</i>
513 West State St.	

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## CONSERVATORY OF MUSIC

Genevieve Alexander	<i>Jacksonville</i>
1204 West College Ave.	
Marie Anderson	<i>Manchester</i>
Helen Louise Ayers	<i>Jacksonville</i>
1052 West State St.	
E. Vorce Bassett	<i>Jacksonville</i>
518 South Diamond St.	
Carl Bergschneider	<i>Jacksonville</i>
820 South Diamond St.	
Hazel Brown	<i>Jacksonville</i>
138 Sandusky St.	
J. Howard Brown	<i>Jacksonville</i>
138 Sandusky St.	
Margaret Brown	<i>Jacksonville</i>
1122 West State St.	

Mary Maud Brown	<i>Jacksonville</i>
Cor. Prairie and Jordan	
Susan Brown	<i>Jacksonville</i>
138 North Sandusky St.	
Eleanor Capps	<i>Jacksonville</i>
503 North Prairie St.	
Arthur Carriel	<i>Jacksonville</i>
1152 West College Ave.	
Jennie Cochran	<i>Jacksonville</i>
210 West College Ave.	
Mabel P. Cowdin	<i>Chapin</i>
Academy Hall	
Nellie Cunningham	<i>Jacksonville</i>
West State St.	
Susan Frances Eames	<i>Jacksonville</i>
622 West State St.	
Ada Ruth Eldred	<i>Carrollton</i>
Academy Hall	
Jennie Eldred	<i>Thomasville</i>
Academy Hall	
Emma Falkins	<i>San Jose</i>
Academy Hall	
Leonore Fernandes	<i>Jacksonville</i>
244 North Pine St.	
Marie Finney	<i>Jacksonville</i>
524 South Diamond St.	
Lelah Fisher	<i>Hillsboro</i>
Cora G. Graham	
637 South Hardin Ave.	
William E. Happy	<i>Jacksonville</i>
455 South Clay Ave.	
Florence Harvey	<i>Griggsville</i>
Louise Huffaker	<i>Jacksonville</i>
1215 West College Ave.	

Esther Johnson	<i>Jacksonville</i>
685 South West St.	
Edith Jordan	<i>Jacksonville</i>
Academy Hall	
Melville T. Kennedy	<i>Jacksonville</i>
1030 Grove St.	
Aileen Leach	<i>Jacksonville</i>
Mound Road	
Mary Lindsay	<i>Jacksonville</i>
238½ North Main St.	
Mabel Mathews	<i>Jacksonville</i>
905 Grove St.	
Eva Leota Mortimer	<i>Woodson</i>
Louise Nance	<i>Petersburg</i>
134 Sandusky St.	
Gladys Osborne	<i>Jacksonville</i>
1135 West State St.	
James A. Powers	<i>Jacksonville</i>
663 South West St.	
Edna E. Pratt	<i>Jacksonville</i>
611 West College Ave.	
Agnes Maude Rudin	<i>Trinidad, B. W. I.</i>
Academy Hall	
Frank Schermerhorn	<i>Jacksonville</i>
239 Webster Ave.	
Nellie Shaffer	<i>Virginia</i>
Sara Shepherd	<i>Hannibal, Mo.</i>
Academy Hall	
E. Louise Smith	<i>Jacksonville</i>
800 West College Ave.	
Carrie E. Sprecher	<i>East St. Louis</i>
Academy Hall	

Anne Stevenson		<i>Jacksonville</i>
	West College Ave.	
Edward Stewart		<i>Jacksonville</i>
	421 East Arnett St.	
Katherine Suydam		<i>Canton</i>
	Academy Hall	
Katie Taylor		<i>Virginia</i>
	Academy Hall	
Minerva Clausen	Thomas	<i>Thomasville</i>
	Academy Hall	
Irene Thompson		<i>Jacksonville</i>
	1106 West College Ave.	
Lizzie Tomhave		<i>Chapin</i>
Emma Wharton		<i>Jacksonville</i>
	153 North Pine St.	
Ruth M. Widenham		<i>Jacksonville</i>
	803 West College Ave.	
Catherine Jane Wilson		<i>Perry</i>
	Academy Hall	

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SCHOOL OF ART

Evelyn Hammond	<i>Jacksonville</i>
Minnie Balcke	<i>Jacksonville</i>
Luella Eveltizer	<i>Jacksonville</i>
Kathryn Russel	<i>Jacksonville</i>
Ada Eldred	<i>Carrollton</i>
Sara Shepherd	<i>Hannibal, Mo.</i>
Isabel Seymour Smith	<i>Oberlin, Ohio</i>
Anna Lagergren	<i>Chicago</i>
Effie Race	<i>Pana</i>









CATALOGUE  
OF  
ILLINOIS COLLEGE



INCLUDING ITS  
PREPARATORY DEPARTMENT  
AND  
CONSERVATORY OF MUSIC

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JACKSONVILLE, ILLINOIS  
APRIL, 1905

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# College Calendar, 1905=1906

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1905

*April 21 to April 24. Friday morning to Monday noon,  
Easter Recess.*

*May 5. Friday. Sophomore Prize Declamations,  
8:00 p. m.*

*May 30. Tuesday. Memorial Day. A holiday.*

*May 31 to June 2. Wednesday to Friday inclusive. Final  
Examinations for the Second Semester.*

*June 2. Friday. Conservatory Alumnæ Concert,  
8:00 p. m. Society Love Feasts,  
8:00 p. m.*

*June 3. Saturday Conservatory Commence-  
ment, 3:00 p. m. Junior Prize  
Speaking, 8:00 p. m.*

*June 4. Sunday. Baccalaureate Sermon.*

*June 5. Monday. Osage Orange Day. The Sen-  
ior Promenade, 8:00 p. m.*

*June 6. Tuesday. Class Day. Whipple Academy  
Commencement. Triennial Alumni  
Reunion.*

*June 7. Wednesday. Commencement Day. An-  
nual meeting of the Board of Trus-  
tees. College Commencement.  
Alumni Dinner. President's Re-  
ception.*

SUMMER VACATION.



- September 18.*      *Monday.*    Matriculation begins for new students. Examinations for admission to Freshman Class. First Registration Day.
- September 19.*      *Tuesday.*    Matriculation concluded at 10 a. m. Last day of Registration for the First Semester.
- September 20.*      *Wednesday.*    FIRST SEMESTER BEGINS, 9:00 a. m.
- November 23.*      *Thursday.*    Thanksgiving Day. A holiday.
- December 7.*      *Thursday.*    Winter meeting of the Board of Trustees at Chicago.
- December 20, 1905, to January 3, 1906, Wednesday evening to Wednesday noon.*    Christmas Recess.

## 1906

- January 12.*      *Friday.*    Last day for handing in choice of studies for the Second Semester.
- January 25.*      *Thursday.*    Day of Prayer for Colleges.
- January 31 to February 2.*    *Wednesday to Friday inclusive.*    Final Examinations for the First Semester.
- February 2.*      *Friday.*    First Semester ends.
- February 3.*      *Saturday.*    SECOND SEMESTER BEGINS. Registration for Second Semester, 8:00 a. m. to 12:00 m.
- February 5.*      *Monday, 8:00 a. m.*    Lectures and Recitations of Second Semester begin.
- February 22.*      *Thursday.*    Washington's Birthday. A holiday.

- March 6.*                    *Tuesday.* Whipple Prize Declamations,  
8:00 p. m.
- April 11 to April 18.* *Wednesday morning to Wednesday*  
*morning.* Easter Recess.
- May 4.*                    *Friday.* Sophomore Prize Declamations,  
8:00 p. m.
- May 30.*                    *Wednesday.* Memorial Day. A holiday.
- May 31 to June 2.* *Thursday to Saturday inclusive.* Final  
Examinations for the Second Se-  
mester.
- June 1.*                    *Friday.* Conservatory Alumnæ Concert,  
8:00 p. m. Society Love Feasts,  
8:00 p. m.
- June 2.*                    *Saturday.* Conservatory Commence-  
ment, 3:00 p. m. Junior Prize  
Speaking, 8:00 p. m.
- June 3.*                    *Sunday.* Baccalaureate Sermon.
- June 4.*                    *Monday.* Osage Orange Day. The Sen-  
ior Promenade, 8:00 p. m.
- June 5.*                    *Tuesday.* Class Day. Whipple Academy  
Commencement. Sigma Pi Trien-  
nial Reunion.
- June 6.*                    *Wednesday.* Commencement Day. An-  
nual meeting of the Board of Trus-  
tees. College Commencement.  
Alumni Dinner. President's Re-  
ception.

# Trustees, Officers and Committees

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## PRESIDENTS

REV. EDWARD BEECHER, D. D.	-	-	-	1830-1844
REV. JULIAN M. STURTEVANT, D. D., LL. D.				1844-1876
REV. EDWARD A. TANNER, D. D.,	-	.		1882-1892
JOHN E. BRADLEY, Ph. D., LL. D.	-	-	-	1892-1899
REV. CLIFFORD WEBSTER BARNES, A. M.				1900-1905
CHARLES HENRY RAMMELKAMP, Ph. D.				1905 ———

## ACTING PRESIDENTS

RUFUS C. CRAMPTON, LL. D.	-	-	-	-	1876-1882
MILTON E. CHURCHILL, Litt. D.	-	-	-		1899-1900
JULIUS E. STRAWN	-	-	-	-	1905

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## TRUSTEES

CHARLES HENRY RAMMELKAMP	-				Jacksonville
EDWARD P. KIRBY	-	-	-	-	Jacksonville
JULIUS E. STRAWN	-	-	-	-	Jacksonville
THOMAS J. PITNER	-	-	-	-	Jacksonville
DAVID R. FORGAN	-	-	-	-	Chicago
HARRY M. CAPPS	-	-	-	-	Jacksonville
MILLARD F. DUNLAP	-	-	-	-	Jacksonville
RICHARD YATES	-	-	-	-	Springfield
CHARLES A. BARNES	-	-	-	-	Jacksonville
WILLIAM BROWN	-	-	-	-	Jacksonville
HOWARD VAN D. SHAW	-	-	-	-	Chicago
JOHN A. AYERS	-	-	-	-	Jacksonville

FRANK ROBERTSON	-	-	-	-	-	Jacksonville
OWEN P. THOMPSON	-	-	-	-	-	Jacksonville
LOGAN HAY	-	-	-	-	-	Springfield
THOMAS WORTHINGTON	-	-	-	-	-	Jacksonville
ANDREW RUSSEL	-	-	-	-	-	Jacksonville
JAMES G. CAPPS	-	-	-	-	-	Jacksonville
WILLIAM J. BRYAN	-	-	-	-	-	Lincoln, Neb
SAMUEL W. NICHOLS	-	-	-	-	-	Jacksonville

---

ALUMNI TRUSTEES

GEORGE L. MERRILL	-	-	-	-	Jacksonville
JULIAN P. LIPPINCOTT	-	-	-	-	Jacksonville
HORACE H. BANCROFT	-	-	-	-	Jacksonville

---

OFFICERS OF THE BOARD

WILLIAM J. BRYAN, *Chairman*.

HARRY M. CAPPS, *Secretary*.

JOHN A. AYERS, *Treasurer*.

---

COMMITTEES

*Endowment*—DAVID R. FORGAN, *Chairman*.

*Finance*—MILLARD F. DUNLAP, *Chairman*.

*Buildings and Grounds*—ANDREW RUSSEL, *Chairman*.

*Honorary Degrees*—EDWARD P. KIRBY, *Chairman*.

---

IDA B. FIELD, *Financial Secretary*.

# The Faculties †

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## COLLEGE AND ACADEMY

CHARLES HENRY RAMMELKAMP, Ph. D., President

*Professor of History*

Ph. B., Cornell University, 1896; Ph. D., Cornell University, 1900; Fellow in American History, Cornell University, 1896-97; Instructor in American History, *ibid.*, 1897-1900; Student, University of Berlin, 1900-1901; Instructor in History, Leland Stanford, Jr., University, 1901-1902; Assistant Professor of History, Illinois College, 1902-1903; Professor of History, Summer School, University of Missouri, 1903; Professor of History, Illinois College, 1903——; President of Illinois College, 1905——.

CLIFFORD WEBSTER BARNES, A. M., B. D.\*

*Professor of Sociology*

A. B., Yale University, 1889; B. D., *ibid.*, 1892; A. M., University of Chicago, 1893; Fellow in Church History, *ibid.*, 1892-93; Resident worker, Hull House Social Settlement, 1893-94; Pastor, Chicago, 1894-97; Student, Mansfield College, Oxford, England, 1898; Director of Social and Religious work for students, Paris, France, 1898-99; Instructor in Sociology and Director of Social Settlement work, University of Chicago, 1899-1900; President of Illinois College, 1900-1905.

JOHN GRIFFITH AMES, JR., A. B., Litt. B.

*Professor of English*

A. B., Johns Hopkins University, 1894; Litt. B.,

---

†The names in each group are arranged in the order of seniority of appointment.

\*Resigned the Presidency January 1, 1905.

Oxford University, England, 1899; Graduate Student, Harvard University, 1894-95; Instructor in English, Kenyon College, Gambier, Ohio, 1895-96; Professor of English, *ibid.*, 1896-97; Assistant Professor of English, Illinois College, 1900-1901; Professor of English, Illinois College, 1901——.

FREDERICK SMITH HAYDEN, Dean, A. B., D. D.

*Professor of Philosophy and Biblical Literature*

A. B., Yale University, 1869; B. D., *ibid.*, 1874; D. D., Illinois College, 1891; Lecturer on Theism and Evidences of Christianity, Illinois College, 1899-1902; Professor of Philosophy and Biblical Literature, Illinois College, 1902—; Dean, 1903—.

WILLIAM OTIS BEAL, A. M., M. S.

*Assistant Professor of Mathematics*

B. S., Earlham College, 1896; A. M., Haverford College, 1897; M. S., University of Chicago, 1902; Instructor in Mathematics, Michigan Agricultural College, 1897-1900; Graduate Student, University of Michigan, Summer, 1898; Fellow in Astronomy, University of Chicago, 1900-1902; Instructor in Mathematics, Chicago Manual Training School, 1902-1903; Assistant in Astronomy, University of Chicago, Summer, 1903; Instructor in Mathematics, Illinois College, 1903-1904; Assistant Professor of Mathematics, Illinois College, 1904.

CARL LYMAN WILLIS, A. M.

*Assistant Professor of Latin and Oratory*

A. B. and B. O., Yankton College, Yankton, South Dakota, 1900; A. M., University of Chicago, 1902; Instructor in Latin, Yankton College, 1900-1901; Graduate Student, University of Chicago, 1901-1903; Charge of Department of Latin, Sum-

mer Quarter, Yankton College, 1903——; Instructor in Latin and Oratory, Illinois College, 1903-1904; Assistant Professor, *ibid.*, 1904——.

AUGUSTUS FARNHAM SHAW, A. M.

*Assistant Professor of Chemistry and Physics*

A. B., Yale University, 1892; A. M., Yale University, 1902; Instructor in Westminster School, Dobb's Ferry, N. Y., 1892-1894; Instructor in Physical Sciences, Mackenzie College, Sao Paulo, Brazil, 1894-1899; Dean of Mackenzie College, 1899-1904; Graduate Student, Yale University, 1901; Assistant Professor of Physics and Chemistry, Illinois College, 1904——.

DAVID MOORE ROBINSON, Ph. D.

*Assistant Professor of Greek*

A. B., University of Chicago, 1898; Ph., D., *ibid.*, 1904; Graduate Scholar in Greek, *ibid.*, 1898-1899; Fellow in Greek, *ibid.*, 1899-1901; Instructor in Greek and German at Stearns Academy, Chicago, 1899-1900; Student in the American School of Classical Studies, Athens, Greece, 1901-1902; Fellow, *ibid.*, 1902-1903; Student in University of Halle, Summer semester, 1902; Member of Excavating Force at Corinth, 1903; Student, University of Berlin, 1903-1904; Assistant Professor of Greek, Illinois College, 1904——.

STELLA LENORE COLE, Ph. B.

*Assistant Professor of German and French*

Ph. B., University of Chicago, 1901; Student in Paris and Berlin, 1896-97; Instructor in German, Indianapolis High School, 1897-98; Graduate Student, University of Chicago, 1898-99; Instructor in German and French, Academy for Young Women, Jacksonville, Illinois, 1899-1901; Student, Uni-



versity of Berlin, 1902-03; Instructor in German and French, Illinois College, 1903——.

ISABEL SEYMOUR SMITH, M. S.

*Instructor in Biology*

A. B., Oberlin College, 1901; M. S., University of Chicago, 1905; Assistant in High School, Fremont, Ohio, 1891-95; Assistant in Botany, Oberlin College, 1897-1902; Graduate Student in Botany, University of Chicago, 1902-1903; Research Student, Marine Biological Station, Woods Holl, Massachusetts, Summer, 1903; Instructor in Biology, Illinois College, 1903——.

FRANK PARSONS NORBURY, A. M., M. D.

*Lecturer in Psycho-Physics*

M. D., Long Island College Hospital, 1888; A. M., Illinois College, 1903; Resident Physician, Pennsylvania Institution for Feeble Minded Children, 1888; Assistant Physician, Illinois Central Hospital for the Insane, 1888-93; Lecturer on Nervous and Mental Diseases, Keokuk Medical College, 1893; Professor of Nervous and Mental Diseases, St. Louis College of Physicians and Surgeons, from 1894; Lecturer on Cranio-Cerebral Anatomy and Surgery in Woman's Medical College, St. Louis, 1894; Associate Editor of the Medical Fortnightly of St. Louis; Lecturer on Psycho-Physics, Illinois College, 1894-1902; Lecturer on Psycho-Physics, 1903——.

RICHARD OWEN STOOPS, A. B.

*Instructor and Principal of Whipple Academy*

A. B., Lake Forrest University, 1897; Principal of High School, Libertyville, Illinois, 1897-99; Superintendent of Public Schools, Elmhurst, Illinois, 1899-1903; Principal of Whipple Academy, 1903——.

HARRIET S. HURD, Ph. B.

*Librarian*

Ph. B., Blackburn University, 1880; Graduate Student, University of Wisconsin, 1901; Instructor in History, Jacksonville Female Academy, 1901-1903; Librarian, Illinois College, 1903——.

MAY S. McCULLY

*Director of Physical Culture for Women*

Boston Normal School of Gymnastics, 1902; Student, Lake Erie College, 1899-1900; Practical Work in Corrective Gymnastics, Children's Hospital, Boston, 1901; Instructor in Gymnastics and Athletics, Dayton, Ohio, 1902; Instructor in Gymnastics and Athletics, Illinois State School for the Deaf, 1902-1904; Private Classes, 1902-1904; Illinois College, 1903——.

## CONSERVATORY OF MUSIC

WILLIAM B. OLDS, A. B., Director

*Instructor in Singing*

A. B., Beloit College, 1898; Studied in Oberlin Conservatory of Music, 1895, 1898-99; In American Conservatory of Music, Chicago, 1899-1900; Singing with Karleton Hackett, Piano with Victor Garwood, Composition with Adolph Weidig; Taught in same, 1899-1900; Teacher of Singing, Grinnell School of Music, Grinnell, Iowa, 1900-1904; Acting Director of same, 1903-1904; Director of Illinois Conservatory of Music, 1904——.

MRS. HELEN AYERS BULLARD

*Instructor in Piano*

Studied Piano with Nicode in Dresden, 1887-88; with Perabo, Boston, 1891; studied Organ with

Hoeppner in Dresden, 1887-88; with Walter Hall in London, 1890; Instructor in Illinois Conservatory, 1890——.

#### FRANCIS LEON WOODMANSEE

##### *Instructor in Piano*

Studied at Knox Conservatory, Galesburg, Ill., 1893-96; Instructor in Western Normal College, Bushnell, Ill., 1896-97; Studied with Victor Garwood and Leopold Godowsky, Chicago, 1897-99; Private Studio, Chicago, 1897-1901, 1903-1904; Concert Work, 1901-1902; Studied with Richard Burmeister, N. Y., 1902-03; Illinois Conservatory of Music, 1904——.

#### FERDINAND HABERKORN

##### *Instructor in Violin, Theory and Piano*

Studied Violin with Beno Walter in Munich, 1889-1892; Came to America in 1893, and located in the south, doing considerable concert work; Instructor in Howard Paine College, Brownwood, Tex., 1900; Instructor in Academy of Music, Fort Worth, Tex., 1901; Studied Theory with Adolf Weidig and Violin with Bernhard Listeman, in Chicago, 1902-1904; Instructor in Illinois Conservatory of Music, 1904——.



## **General Information**

## HISTORY AND ORGANIZATION

Illinois College, the first institution in the state to graduate a collegiate class, was founded in 1829 through the happy combination of two independent forces. One force, inspired by the missionary zeal of Rev. John M. Ellis of the Presbyterian church, was composed largely of residents of Jacksonville who were eager to give the youth of their state a liberal education. The other, an eastern organization known as the "Yale Band," consisted of seven men from Yale College who had pledged themselves to the cause of Christian education in the Home Mission fields of the growing West.

As early as 1827 an attempt had been made to establish a college at some point within five miles of Jacksonville; in 1828 the outline of a plan was prepared in which certain prominent citizens of Morgan, Greene, Bond, Montgomery, Sangamon, and Madison counties agreed that if proper support were given, they would do everything possible "to build an institution worthy the patronage of an enlightened and free people, and to secure the accomplishment of our best wishes for the education of our youth, the hope and glory of the land." In 1829 the "Yale Band," composed of Theron Baldwin, John F. Brooks, Mason Grosvenor, Elisha Jenney, William Kirby, Julian M. Sturtevant and Asa Turner, brought with them to the West not only Christian zeal and cultivated talents, but also contributions made by friends in the East amounting to \$10,000, with which to start the enterprise.

Before the close of 1829 a complete organization of Illinois College had been perfected; Beecher Hall, the

oldest college building in the state, had been erected, and the first instructor, Julian M. Sturtevant, had entered upon his duties. In December, 1830, Rev. Edward Beecher, an elder brother of Henry Ward Beecher, was called to the Presidency. He gave up his large church on Boston Common, and for fifteen years did splendid service in developing the resources and in strengthening the foundations of the new institution.

Fear of a theological bias in education made it impossible at first to obtain a charter from the Legislature, so that it was not till 1835 that the College succeeded in gaining legal recognition. In this year the first class was graduated with Richard Yates, the War Governor of Illinois and afterward United States senator, among its members.

On January first, 1903, the Jacksonville Female Academy, a Presbyterian school founded in 1830, and the Illinois Conservatory of Music, founded in 1871, were merged with Illinois College, it being agreed that the College and its preparatory department should become co-educational and that a majority of its Board of Trustees should be Presbyterian.

The administration of the institution is vested in the Board of Trustees. The direction of the College work is vested in the Faculty, who determine the requirements for admission to the College, the standard of excellence, subjects, and the methods of study. They have the power to make such rules as may be deemed best for the welfare of the students.

It is the aim of Illinois College to provide for young men and young women a liberal education of a high standard in the midst of a Christian atmosphere.



The courses of instruction are so arranged as to give the best preparation for professional study and for active life, and afford the broadest general culture. The instructors are specialists in their various departments, and the class rooms and laboratories are supplied with good appliances for illustration and experiment. The wide range of elective studies enables students to carry their work in any chosen department to a high degree of excellence, while the system of major subjects prevents wasteful scattering of efforts.

### LOCATION AND SURROUNDINGS

Jacksonville, with a population of 16,000, is one of the oldest and most beautiful towns in Illinois, located about 200 miles south-west of Chicago and 30 miles west of Springfield, at the intersection of the Chicago and Alton, the Wabash, the Chicago, Peoria and St. Louis, and the Chicago, Burlington and Quincy railroads. Its preeminence as an educational center in early days led many cultured families to make their homes in its neighborhood; in these later years the development of colleges and seminaries has given the place a distinct air of refinement. Its healthful climate and high moral tone render it a most favorable location for a Christian college.

The College campus, twenty acres in size, is beautifully located in the midst of fine residences on an elevation known as College Hill.

### BUILDINGS AND EQUIPMENTS

Ten buildings go to make up the College plant, and among these may be mentioned:

## JONES MEMORIAL HALL

In 1896 Dr. Hiram K. Jones, of Jacksonville, presented to the College, in memory of his wife, Elizabeth Orr Jones, the Jones Memorial Hall. This hall, fitted in accordance with modern methods of lighting, heating, and ventilating, contains the Chapel, the Library, the offices of the President, the Dean, and the President's Secretary, recitation rooms, and a ladies' waiting room.

## STURTEVANT HALL

In 1852, immediately after all buildings of the College except Beecher Hall had been burned, the Trustees began to erect a new building, which was completed in 1857 and named in honor of Dr. Sturtevant. Recently it has been thoroughly renovated, and now contains the Chemical and the Biological laboratories and recitation rooms.

## BEECHER HALL

The first building of the College, built in 1829, still stands. It is now occupied exclusively by the student literary societies for men, Phi Alpha, Sigma Pi, and Philologian, and by the College Y. M. C. A.

## THE GYMNASIUM

The lower floor of this building, built in 1891, contains bath-rooms, with tub and shower baths, a locker-room and dressing-room for men, and a cage for baseball practice, hurdling, etc. The second floor contains the large exercise hall, 86 feet by 40, and about 36 feet high, fitted with all kinds of physical apparatus and dressing-rooms for women.

## WHIPPLE HALL

This building, erected in 1882, is occupied by the Preparatory Department. Besides a large study-room, it contains recitation rooms, a waiting room for girls, and the office of the Principal.

## COLLEGE HALL

This hall contains two good sized dining rooms, and is equipped so as to accommodate comfortably all the men who room in Crampton Hall.

## CRAMPTON HALL

This is a large, three-story, brick building, erected in 1873 as a dormitory for students and instructors. It has just been remodelled, a new steam heating plant introduced, hard-wood floors laid throughout, and bath-rooms completely equipped placed in both the north and south halls. The rooms for the most part are in suites of two, consisting of a bed-room and a study. The few single rooms are unusually large and well lighted. It is intended that most of the rooms in Crampton Hall shall be occupied by two students. These rooms are cared for every day by a janitor, without extra charge, and the College keeps them in perfect repair. Students are expected to buy their own furniture, although the College has some second-hand furniture which it will rent at a moderate rate. The building is lighted by gas, and each room is charged for the amount it burns, the amount being measured by individual meters. Instructors room in each hall who see that the students keep regular hours and observe gen-

tlemanly deportment. Rooms may be reserved until registration day, providing a deposit of \$5 be made. This may apply later on the rent, but will be forfeited if the room is not taken. (See also page 38, "Tuition, Fees, and other fixed charges.")

#### ACADEMY HALL

This building, with its beautiful grounds shaded by large elm trees, is located a few blocks east of the College and furnishes an exceptionally good home for women students. It is lighted by gas and electricity, heated by steam, supplied with Gravel Springs drinking water (which took a first prize at the World's Fair in St. Louis), and has all the modern sanitary improvements which make for comfort and safety. The students' rooms are completely furnished with the exception of such linen and bed clothing as one usually desires to bring from home. Rooms may be reserved until registration day, providing a deposit of \$10 be made. This may apply later on the term bill, but will be forfeited if the room is not taken. Most of the rooms are intended for two students, but it is usually possible to secure a room alone by the additional payment of \$10 per semester.

The advantages of living in Academy Hall are many and positive. The Head of the House and a number of teachers reside in the Hall and become directly responsible for the conduct and habits of the students. The systematic use of time is secured; irregularities, and exposures dangerous to health are avoided; habits of order, neatness, and punctuality are cultivated. Living with others in a refined home gives a

breadth and polish that a young woman can scarcely acquire elsewhere.

Girls from a distance must board at Academy Hall unless there are special reasons which make boarding elsewhere necessary. In every such case written permission from the Head of the House is required. Those desiring rooms in Academy Hall should make early application. (See also page 38, "Tuition, Fees, and other fixed charges.")

## LIBRARIES

The College Library, catalogued according to the Dewey system, is large and well selected, and in several departments is valuable and complete. It is open from 8 a. m. to 4 p. m. The Librarian will gladly assist students in the choice of books to be read in connection with their studies. There are at present in the College and Society Libraries about 16,000 volumes. The reading room adjoining the Library is supplied with a representative assortment of periodicals.

Students have access also to the Jacksonville Public Library.

## LABORATORIES

### THE BIOLOGICAL LABORATORY

The Department of Biology occupies half of the main floor of Sturtevant Hall. The rooms are all well lighted, well ventilated, and provided with gas and water. The laboratory is fitted with cases and operating tables, and has an abundant supply of materials and instruments. In addition it has equipment for work in Plant Physiology, with a window conservatory, col-

lections of Zoological and of Botanical specimens, a very valuable set of microscopical slides, a complete set of Zoological charts, and a small Biological library.

#### THE CHEMICAL LABORATORY

The Chemical Laboratory occupies roomy quarters on the second floor of Sturtevant Hall, where the best of ventilation is readily secured. Stone-top benches, piped with water and gas, and fitted with individual lockers, are provided. For experiments in which noxious gases are set free, six large hoods with forced draughts have been built.

#### THE PHYSICAL LABORATORY

In North Crampton Hall the Department of Physics has a large laboratory for general experiments, and several smaller rooms for special purposes. These rooms have all necessary conveniences—gas and electricity, running water, etc.

### PHYSICAL CULTURE

#### YOUNG MEN

Systematic physical training is provided for all students, and is required of all below the Junior year. Before entering upon this training each student is given an examination by the Director of Physical Culture, which forms a basis for special advice and prescribed work.

From January until April exercise is required in the Gymnasium three days in the week.

In addition to the work in the Gymnasium, every facility is given for participation in out-door sports.



The Athletic Field is one of the best in the state, and contains a running track, base-ball diamond, and football field. During the winter months cross-country runs are kept up.

The ordinary drill work, as well as the training of teams for inter-collegiate contests, is under the direction of a competent instructor.

The general management of athletic affairs is vested in the Board of Control of the Athletic Association, consisting of representatives from the alumni, Faculty and students.

#### YOUNG WOMEN

A thoroughly competent woman instructor gives regular drill in physical culture, using the Swedish system of gymnastics, and by means of special work, based on individual needs, attempts to overcome any weakness that may exist.

At special hours during the week the young women have the entire use of the College Gymnasium, and at other times they are free to use a new and well appointed Gymnasium in Academy Hall. Basket ball and tennis are practiced on the grounds which surround Academy Hall.

#### LITERARY SOCIETIES

Among the most attractive and valuable features of student life in Illinois College are the Literary Societies. These are heartily endorsed by the Faculty as useful adjuncts to the regular department of instruction. They are conducted with ability, dignity and strict attention to the purposes of their organization,



which are to furnish thorough training in debate, in expression of thought, and in parliamentary usages. The women's societies have their rooms at Academy Hall.

### RELIGIOUS LIFE

A brief religious service is held daily in the College Chapel, at which all students are required to be present. It is the aim of the College to maintain a high Christian standard and to develop in the student the noblest type of Christian manhood.

Students are encouraged to attend, on Sunday, the churches of the city, which are most cordial in their attitude toward the student body.

The College Young Men's Christian Association has long been an efficient factor in student life. It has a meeting for prayer and conference Sunday afternoon, a mid-week prayer meeting, six classes for Bible study, and a class for the study of missions. An employment bureau for the benefit of those who need assistance is a valuable feature of the Association's work.

A branch of the Young Woman's Christian Association has regular meetings at Academy Hall.



# **The College**

## ADMISSION TO THE COLLEGE

All candidates for admission must offer satisfactory testimonials of good moral character. Students coming from other colleges must present certificates of honorable dismissal.

Candidates for admission to the Freshman class must have fourteen units of preparatory work. A unit is the amount of work usually accomplished in a subject by one daily recitation during one school year. In every case, however, the time assigned is simply for convenience and the work outlined must be fully completed whether the time taken be more or less than that in the estimate.

The subjects which must be offered for admission and the number of units in each are:

English	-	-	-	-	3 units
Language (other than English)					3 units*
Mathematics	-	-	-	-	2 units
History	-	-	-	-	1 unit
Laboratory Science	-	-	-	-	1 unit
Elective	-	-	-	-	4 units

\*At least two of these must be in the same language.

The elective units may be taken from the following:

Latin	-	-	-	2, 3, or 4 units
Greek	-	-	-	1 or 2 units
German	-	-	-	1 or 2 units
French	-	-	-	1 or 2 units
General Biology, History, Botany, Zoology, Physiology, Geology, Physiography, Chemistry, Physics, Solid and Spherical Geometry,	-	-	-	1 unit each

Students who intend to study Latin in College must offer at least three units of Preparatory Latin.

No candidate will be admitted to College as a regular student who is conditioned in more than two entrance units. All conditions must be removed before the end of the Sophomore year.

The following statements indicate the ground expected to be covered in the study of the various subjects accepted for admission:

ENGLISH—*Composition and Rhetoric.* English Grammar; Whitney, Lockwood, or an equivalent. In Rhetoric and Composition, any High School Rhetoric such as Hill, or Herrick and Damon. Each candidate will be expected to write a short theme on some subject chosen from the books mentioned below. The treatment of the topic is designed to test the candidate's ability to express himself simply, clearly, and accurately.

1 unit

*Literature.* (a) A careful knowledge of the following works, or their equivalent. The examination will be upon subject matter, form and structure. Shakespeare's *Macbeth*; Milton's *Comus*, *Lycidas*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Johnson and Addison*.

1 unit

(b) A general knowledge of the subject matter of the Sir Roger De Coverly Papers in the *Spectator*; Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *Last of the Mohicans*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

1 unit

Attention is called to the fact that the right is

reserved to regard all examination papers, upon whatever subject, as part of the English examination.

MATHEMATICS.—*Algebra*. Through quadratic equations. 1 unit

*Geometry*. Plane Geometry. A thorough understanding of the fundamental theorems, ability to solve and prove original exercises, and accuracy and acuteness in thinking are desired. 1 unit

FOREIGN LANGUAGES—*Latin*. (a) A standard beginner's book in Latin, and four books of Cæsar; Latin composition. 2 units

(b) Six orations of Cicero; Latin Composition. 1 unit

(c) Six books of Virgil's *Æneid*. 1 unit

*Greek*. (a) White's First Greek Book, or equivalent. 1 unit

(b) Xenophon's *Anabasis*, four books; Greek prose composition. 1 unit

*German*. (a) Careful drill in pronunciation. Rudiments of grammar. Abundant exercises designed to fix in mind the grammatical forms and to cultivate readiness in expression. Between one and two hundred pages of graduated text, chiefly prose. 1 unit

(b) Thorough drill in composition. Free reproduction. Between three and four hundred pages of moderately difficult prose and poetry. 1 unit

*French*. (a) Essentials of French Grammar as contained in Fraser and Squair's French Grammar, or its equivalent. 1 unit

(b) Careful reading in French authors of not less than two hundred duodecimo pages. Special emphasis

will be placed on correct pronunciation and the mastery of irregular verbs. 1 unit

**HISTORY.** *Ancient History.* Introductory study of Oriental nations; Greek history to death of Alexander; Roman history and Early Mediæval history to death of Charles the Great. Botsford's History of Greece and Allen's Short History of the Roman people, or equivalents, with supplementary reading. 1 unit

*English and American History.* Wrong's British Nation and McLaughlin's History of the American Nation, or equivalents, with supplementary reading.

1 unit

*Mediaeval and Modern History.* European history from the death of Charles the Great to the Franco-German war of 1870. Myer's Mediæval and Modern History, or equivalents, with supplementary reading.

1 unit

Any of these three divisions may be offered as the unit in History required of all candidates for admission.

**BIOLOGY.** *General Biology.* One year's study of typical animals and plants by the laboratory method, covering the facts of morphology and physiology. Jordan and Kellogg's Animal Life and Coulter's Plant Relations, or equivalents. Candidates for admission must submit laboratory note books. 1 unit

*Botany.* A year's work based upon Coulter's Plant Structures and Plant Relations, or equivalent texts.

1 unit

*Zoology.* A year's work based upon Pratt's Invertebrate Zoology, or equivalent text, and Jordan's Animal Life. Accurate notes and drawings should be made by the student. 1 unit



*Physiology.* A year's work based on any standard text, as Overton's, Martin's or equivalent. A laboratory note-book should be submitted. 1 unit

**GEOLOGY.** A year's work based upon such a text as Tarr's *Geology* is sufficient. 1 unit

**CHEMISTRY.** Acquaintance by laboratory work with the properties of substances common to Chemistry; familiarity with the chemical notation, the ability to solve simple problems, and to use correctly the ordinary terms of Descriptive Chemistry. The laboratory note-book must be presented at the time of examination. 1 unit

**PHYSICS.** The elements of Physics as presented in such text books as Gage's, or Carhart and Chute's *Elements of Physics*. The candidate must have had laboratory practice equivalent to that described in the laboratory text-book of Chute. As proof of such work the candidate must submit a laboratory note-book. 1 unit

**PHYSIOGRAPHY.** A year's work based upon such texts as Davis's or Tarr's will meet the requirements. 1 unit

#### ADMISSION BY CERTIFICATE.

Under certain conditions specified below certificates of preparatory schools may be accepted in place of examination for admission.

The certificates must be made out on a blank furnished by the College in accordance with instructions contained therein. They must contain an explicit statement of the work done by the candidate and the time devoted to it. If the work covered by the certificate

is materially less than the amount required for admission, or if the time devoted to a given subject is inadequate, the certificate will not be accepted for the subject in which the deficiency occurs, but it will remain valid for the other subjects.

#### ADVANCED STANDING

Students who come from other colleges of recognized rank may receive such advanced standing as their certificates from those institutions may warrant. Such certificates must contain definite statements of the amount and character of work done, preparatory and collegiate.

#### MATRICULATION

All candidates for admission must present themselves before a committee of the Faculty in the College Library at the time assigned for Matriculation in the calendar (page 8). Those presenting satisfactory certificates from secondary schools will be granted matriculation cards. Those without satisfactory certificates will have assigned them the subjects in which they are to be examined, and the place and time of such examination. Students must sign their matriculation cards and have them indorsed by the Dean before they can register.

#### REGISTRATION

Registration takes place each semester in the Dean's office, and at the special time assigned it in the calendar (page 8). Registration at any other time involves an additional fee of two dollars, and if long delayed may debar a student for that semester. Imme-

diately after registering, each student settles for his tuition, fees and other fixed charges with the Financial Secretary.

## TUITION, FEES, AND OTHER FIXED CHARGES

These regular semester accounts are payable in advance, and at the time and place specified under "Registration." There are no exceptions to this rule, and students will not be fully registered nor admitted to class-rooms until a satisfactory settlement has been made with the Treasurer.

The following is a schedule of the fixed charges for each semester:

Tuition, for all regular students.....	\$ 25.00
Library and Gymnasium fee, for regular students	2.50
Laboratory fee, for students in Physics.....	2.50
Breakage deposit, for students in Physics.....	2.00
Laboratory fee, for students in Biology or Chemistry .....	5.00
Breakage deposit, for students in Physiological Biology or Chemistry.....	5.00

### CRAMPTON HALL ROOMS (see page 24)

#### Per Semester

Including heat and janitor service.

6, 11, 22, 27..	\$20.00	With two students, each..	10.00
5, 23.....	28.00	With two students, each..	14.00
7, 8, 9, 10, 12,			
13, 14, 15, 16,			
17, 18, 19, 20,			
21, 24, 25, 26,			
28.....	36.00	With two students, each..	18.00
Breakage and gas deposit.....			10.00

### ACADEMY HALL ROOMS (see page 25)

#### Per Semester

Including board, light, heat, and plain laundry..	100.00
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Breakage deposits are to cover possible damage to apparatus and property, and the gas deposit is to cover the cost of lighting, as measured by individual meters in the rooms of Crampton Hall. The balance due each student on these accounts will be repaid at the end of the semester.

Students who find it necessary on account of sickness to give up a semester's work during its first half will have returned to them one-half of that semester's payment. In no other case will money be refunded.

### GENERAL EXPENSES

In addition to the fixed charges given above there are certain general expenses which may be incurred.

*Rooms*—Crampton Hall (see page 24): Rental of furniture, estimated for semester, \$5.00. Cost of new furniture, estimated for entire course, \$15.00 to \$30.00. Gas and breakage, estimated for semester, \$4.00.

*Board*: Students maintain a boarding club in College Hall, and obtain good board at its actual cost: Estimated per week, \$2.50. Board in private families, with furnished room, estimated per week, \$3.50 to \$4.50.

*Books, Society Fees, Laundry, etc.*: These items vary with the taste and habits of the student. Estimated per semester, \$5.00 to \$10.00.

### SPECIAL STUDENTS

The matriculation and registration of special students will be at the time and place specified for regular students, but their fixed charges will differ in the following items: For each semester:

Tuition, 2-hour course.....	\$ 8.00
Tuition, 3-hour course.....	10.00
Tuition, 4 or 5-hour course.....	15.00
Tuition, more than one course.....	25.00
Library fee, required of all special students.....	5.00
Gymnasium classes, 20 lessons.....	5.00

Laboratory fees and general expenses may be estimated at the same figures as for regular students.

### SELECTION OF STUDIES

All candidates for the Bachelor's degree must obtain credit in 130 hours of College work before graduation.

Of these 130 hours, 60 shall be required in the following subjects, and as indicated:

English	-	-	-	14 hours
Mathematics	-	-	-	10 hours
Science	-	-	-	10 hours
Language	-	-	-	20 hours
History	-	-	-	6 hours
<hr/>				
Total	-	-	-	60 hours

In the Freshman year all students must choose 34 hours (17 each semester) in required subjects. These subjects and hours are:

Mathematics	-	-	-	10 hours
English	-	-	-	4 hours
Language	-	-	-	10 hours
Language or Science	-	-	-	10 hours
<hr/>				
Total	-	-	-	34 hours

One hour of Oratory for two semesters after the Freshman year shall be required of all candidates for

the Bachelor's degree. For this course no credit is given.

Students must pursue the rest of their required studies as early in their College course as possible.

At the beginning of the first semester of their Sophomore year all students must choose a major department\* in which, during their College course, they must select not less than 30 hours, including any hours required in that department. In lieu of a single major department students may choose two related departments, in each of which they must select not less than 20 hours.

In the Sophomore, Junior, and Senior years a student must choose from the electives for which he is prepared a sufficient number of hours to make a total, with required work, of from 15 to 17 hours per week each semester.

Permission to take less than 15 or more than 17 hours a week in any semester must be obtained from the Dean, subject to the approval of the Faculty.

Students, before registering with the Dean for elective studies, must consult the instructors under whom they are pursuing their major subjects.

Students electing a course that has a course logically following it in the second semester will be required to take the course during the second semester.

Students beginning any language must continue to study it for two consecutive years, unless excused by special vote of the Faculty.

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\*These major departments are Greek, Latin, French, German, English, History and Political Science, Mathematics, Physics, Chemistry, and Biology.



Any elective course for which less than five students register may be withdrawn at the discretion of the instructor.

## EXAMINATIONS AND GRADES

At the end of each semester all students are examined in the courses pursued by them during the semester. A student is not admitted to examination in any course in which his work has been unsatisfactory. Absence from an examination, except by reason of absolute necessity, will be regarded as a failure.

The standing of a student is indicated by letters as follows: A—Exceptionally good. B—Passed with credit. C—Passed. D—Conditioned. E—Failed.

Every condition must be removed during the semester following such condition, or it will be marked a failure. In case of failure in a required course, the course must be taken again the first succeeding semester that it may be offered.

## COLLEGE RANK

Students who have completed less than thirty hours will be ranked as Freshmen; those who have completed thirty or more, but less than sixty, as Sophomores; those who have completed sixty hours, but less than ninety, as Juniors, and those who have completed ninety or more hours, as Seniors.

## RECORDS AND REPORTS

At the end of each semester a report is sent to the parent or guardian indicating the student's standing in each study for that semester.



## ATTENDANCE

Regular attendance is required at chapel services and class exercises, but to allow for such absences as may seem necessary, the following rules have been adopted:

1. A student is allowed each semester the following absences: From chapel services, 10 absences; from a five-hour course, 5; from a four-hour course, 4; from a three-hour course, 3; from a two-hour course, 2; from a one-hour course, 2.

2. Any student having for any cause more than the allowed number of absences in any course will be considered conditioned in the course. In order to remove the condition, the student must do such extra work as the instructor may assign.

3. Absences from chapel on account of sickness will be excused at the discretion of the Dean, if the student so requests immediately upon return to College. For any unexcused absence beyond the limit the student will be dismissed from College.

## CLASS OFFICERS

Each class upon entering College has an instructor assigned to it as class officer, to whom its members can look for advice and counsel at all times during their College course, and whose judgment in many matters can be of great value to them.

## GRADUATION

In the award of all degrees and honors attention is paid to conduct, and any student who has incurred seri-

ous discipline may be debarred from the rank to which otherwise his scholarship would have entitled him.

#### BACHELOR'S DEGREE

Students who complete the required course of study of 130 hours are given the degree of Bachelor of Arts, or Bachelor of Science, according to the studies pursued. The degree is conferred at Commencement, and diplomas, signed by the President and by the Secretary of the Board of Trustees, are issued. The fee for this degree is ten dollars, to be paid to the College Treasurer not later than one week before Commencement.

#### MASTER'S DEGREE

The degree of Master of Arts may be conferred upon Bachelors of Arts who shall have devoted one year exclusively to graduate study in the College, and who shall have shown satisfactory proficiency in their work through examinations and by preparing a thesis upon an approved subject. The fee for this degree is ten dollars, to be paid to the College Treasurer before the candidate enters the final examinations.

Under the same conditions the degree of Master of Science may be conferred upon a Bachelor of Science.

#### HONORS

The final rank of members of a graduating class is computed by combining the averages for the several years of the College course; the average for the Freshman year, however, is omitted in those cases in which it would lower the standing of the student. From these

final marks the Faculty determines what portion of the class shall be printed as the Honor List.

#### COMMENCEMENT SPEAKERS

The Senior whose individual rank is highest is ordinarily awarded the *Valedictory*. The Senior whose individual rank is the next highest receives the *Salutatory*. Three others are chosen in the order of their scholarship to deliver orations.

#### PRIZES

All prizes are offered each year. The Faculty may, however, withhold a prize in any instance in which reasonable competition is not manifested. None but regular students may compete for any prize and they must pursue the subject in which the prize is given, and must maintain a good average in all their studies.

It is expected that all prizes will be expended for books or for some other object approved by the Faculty.

#### THE SMITH PRIZES

A fund of \$1,000 has been given by Mr. Thomas Smith of Hartford, Conn., the income from which is applied as follows:

(a) The income from the sum of \$250 is awarded to a member of the Sophomore class for the best declamation in English prose.

(b) The income from the sum of \$250 is awarded to a member of the Sophomore class receiving the highest grade for the year's work in English composition.

(c) The income from the sum of \$250 is awarded to a member of the Sophomore class in Mathematics for

the best discussion of some subject related to the work of the year.

(d) The income from the sum of \$250 is awarded to the member of the Freshman class giving the best discussion of some assigned problem or topic in Mathematics. The competition is open to the four students whose class rank for the year in Mathematics is highest.

#### THE IRELAND PRIZE

The income from the sum of \$500, given by Rev. W. E. Catlin, of the class of 1845, in honor of his classmate, Rev. William Ireland, is awarded to a member of the Senior class for the best paper on some assigned subject in the Department of Philosophy.

#### THE BRYAN PRIZE

The income from the sum of \$300, given by the Hon. William Jennings Bryan of the class of 1881, is awarded to the member of the Junior class in Political Science who presents the best thesis on an assigned subject bearing on the work of the course.

#### THE HALL PRIZE

The income from the sum of \$250, given by Mr. H. H. Hall, of Jacksonville, is awarded for the best oration delivered by a member of the Junior class.

#### THE ROSS PRIZE

The sum of \$25, given by Mr. George C. Ross, of the class of 1873, is awarded to the member of the Junior or Senior class who presents the best thesis on the subject: "How can the ability to write and speak good English be best promoted in Illinois College?"

## PRIZES AWARDED 1904

## The Reid Prizes—

a.	Arthur F. Ewert	-	-	\$50.00
b.	Arthur F. Ewert	-	-	30.00
c.	Clarence E. Carter	-	-	20.00
d.	Not awarded.			

## The Smith Prizes—

a.	Ainslie Moore	-	-	\$12.50
b.	Antoinette Pires	-	-	12.50
c.	Roy McKown	-	-	12.50
d.	Rex Palmer	-	-	12.50

## The Ireland Prize—

Not awarded.

## The Bryan Prize—

	Lathrop Ward	-	-	15.00
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## The Hall Prize—

	Clarence E. Carter	-	-	12.50
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## SCHOLARSHIPS

The income from Scholarships is given to students as a reward of merit and as a means of assistance. Application for a scholarship must be made in writing not later than May 15, and must contain an honest statement of the student's financial condition. In the case of new students this statement must be accompanied by testimonials of good moral character, and of intellectual ability.

Scholarships are usually assigned for one year and are payable only to regular students. Students desiring to have their scholarships continued must make application each year in the regular form.

A student who is conditioned in any subject will forfeit his scholarship for the next semester.

Scholarship students must room either in Crampton Hall or in Academy Hall, unless there are special reasons which make rooming elsewhere necessary. In every such case written permission from the Dean is required.

The following scholarships have been established by friends of the College:

- 1—The Henry Haskins Ousley Memorial Scholarship, established by Mrs. Ella L. Brainard, of Lincoln, Ill., in memory of her father - \$1,000
- 2—The Walter Lee Sanders Memorial Scholarship, established by Hon. George A. Sanders, of Springfield, Ill., in memory of his son - \$1,000
- 3—The Frank L. True Memorial Scholarship, established by Lyman W. True, of Jacksonville, in memory of his son - - - \$ 500
- 4—The Hubbard Scholarship, established by friends of the College - - - \$1,000
- 5—The Barstow Scholarship, established by A. C. Barstow, of Providence, R. I. - - \$1,000
- 6—The Walcott Scholarship, established by Rev. Samuel Walcott, of Providence, R. I. \$1,000
- 7—The Holmes Scholarship, established by Mr. Charles Holmes, of St. Louis, Mo. - - \$1,000
- 8-9—The Ellis Scholarships, established by Rev. John M. Ellis, one of the founders of the College - - - - - \$2,000
- 10-11—The Abel Scholarships, established by Mr. Abel, of Quincy, Ill. - - - \$2,000

- 12—The Y. P. S. C. E. Scholarships, established by the Congregational Churches of Quincy, Jacksonville, and Waverly, the Christian Church, and the State Street Presbyterian Church of Jacksonville, Ill.       -       -       - \$ 500
- 13—Ministerial Scholarships; sons and daughters of clergymen are granted half-scholarships, amounting to \$25 per annum.
- 14—High School Scholarships. These are given in a limited number of High Schools to the boy who ranks either first or second among the boys, and to the girl who ranks either first or second among the girls, providing that in no case shall their grade for the last year in the High School be lower than 90 per cent. on a basis of 100. These Scholarships amount to \$50 per annum each.
- 15—The Harvard University Scholarship. This Scholarship is open to the graduates of the universities and colleges of Illinois who wish to follow a graduate course of study at Harvard University. Application must be made before May 1st in each year; Senior Students about to finish the undergraduate courses are eligible as candidates. Communications from candidates for the year 1905-6 should be addressed to Samuel Adams, 516 Monadnock Block, Chicago. This Scholarship yields \$300 per annum.



# HOURS OF RECITATION

	8:00	9:15	10:10	11:05	1:30	2:30	3:30
Bible					T Th		
Biology			1, 2—Daily	1, 2—M W F			
Chemistry			3, 5—M W F	3, 5—Daily			
					1, 2—Daily	1, 2—M W F	
English					5, 6—Daily	3, 4—Daily	3, 4—M W F
	11, 12—M W F	9, 10—M W F	7, 8—M W F	1, 2—T Th			
		5, 6—T Th		3, 4—M W F			
French			3, 4—Daily				
German	5, 6—M W F	1, 2—Daily		7, 8—M W F	1, 2—Daily		
Greek	3, 4—Daily	1, 2—Daily		7, 8—Daily	9, 10—Daily	3, 4—Daily	
History	1, 2—M W F	3, 4—M W F	9, 10—M W F				
Latin		5, 6—M W F	1, 2—Daily				
Math	1, 2—Daily	{ 5, 6—M W F 7, 8—T Th }	3, 4—Daily		{ 9, 10—T W Th F 11, 12—M }	9, 10—T Th	
Oratory				1, 2—T			
				5, 6—M W F			5, 6—M W F
Political Sc.	3, 4—T Th	5, 6—T Th				1, 2—M W Th	
Philosophy	1, 2, 9, 10—M W F	5, 6—T Th					
	3, 4—T Th						
Physics			1, 2—Daily	1, 2—M W F			
Sociology		1, 2—T Th					

Daily Chapel Service, 9:00 to 9:15 a. m.

## COURSES OF INSTRUCTION.

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BIBLICAL LITERATURE

FREDERICK SMITH HAYDEN, Professor.

Systematic courses in the study of the English Bible each year, open to all students of the College, give the student a general historical knowledge of the Bible, with special emphasis on the life and teachings of Christ. Courses 3, 4, 7, 8, 12, which will given 1905-06, alternate with Courses 1, 5, 6, 9, 10.

1—*Bible Versions and Canon.* First Semester. 1 hour

The growth of Sacred Scriptures; the original manuscript forms; transmission through Jewish, early and later Christian versions; the Apocryphal writings; types of Jewish and of Christian Scripture interpretation.

3-4—*Beginnings of Hebrew History.* Entire Year.

1 hour

The ancient civilizations which form the background of Jewish life; interpretation of the testimony furnished by the monuments and other records, in their relation to the Hebrew people.

5-6—*Hebrew History and Literature.* Entire Year.

1 hour

Political, social, and religious life of the people; their settlement in Canaan; division of the kingdom; connection with the great political movements between 937 and 586 B. C.; work of the Hebrew prophets.

- 7-8—*New Testament History and Literature.* Entire Year. 1 hour

Study of Roman and Jewish life about the time of Christ; laws and customs which form a background to the New Testament teachings; literature bearing on Jewish and Christian life.

- 9-10—*Life of Christ.* Entire Year. 1 hour

Study of Christ's life as revealed in the four gospels; Christ's teachings; the organization and development of the Primitive Christian church.

- 12—*Life and Letters of the Apostle Paul.* First Semester. 1 hour

A study of several interpretations of the story of his conversion and activity; explanation of his commanding influence in the early church; relation of his doctrine to the teachings of Christ; comparison with other apostles—Peter, John, James, and their teachings; condition of the early churches calling forth his letters; their literary style; contents; development of doctrinal views, and growth of personal spiritual experience, as shown in his writings.

## BIOLOGY

ISABEL SEYMOUR SMITH, Instructor.

The courses in Biology are designed to meet the needs of a general education, and also to serve as a preparation for those students who are shaping their studies with a view to future work in medicine.

- 1—*General Morphology (Botany).* First Semester. 5 hours

The aim of this course is to give the student a

general survey of the entire plant kingdom. Selected types of algae, fungi, liverworts, mosses, ferns and fern allies, and flowering plants are studied.

Two lectures or recitations with six hours laboratory work per week.

Text: Coulter, Plant Structures.

2—*General Morphology (Zoology)*. Second Semester. 5 hours

This course endeavors to meet the needs of a general knowledge of Zoology, and furnish the basis for more advanced work. Especial emphasis is placed on the more important zoological problems through the consideration of the structure, development and relationships of types taken from the invertebrates.

Two lectures or recitations with six hours laboratory work per week.

Text: Hertwig's Manual of Zoology; Kingsley.

3—*Plant Physiology*. First Semester. 5 hours

This has been called the "why" of plant processes. It is a study of the explanation of plant functions by physical and chemical laws. At least an elementary knowledge of physics and chemistry is a necessary antecedent to this course. The laboratory work is largely experimental.

Two lectures or recitations and six hours of laboratory work per week. 1905-1906.

4—*General Ecology and Field Botany*. Second Semester. 5 hours

This is a general course in the study of flowering plants, designed especially for students who do not expect to take more than one semester of Botany. No preliminary work in Botany is necessary. The

first half of the semester is given to a study of the structural adaptations of plants and plant organs to their surroundings. In the second half of the semester a study of the local flora is made from an ecological standpoint. Especial attention will be given to trees, both in their summer and winter conditions.

Two lectures or recitations and six hours of laboratory work per week. 1905-1906.

5—*Vertebrate Anatomy*. First Semester. 5 hours

The thorough dissection of *Amphioxus*, the Skate, the Frog, and the Cat is accompanied by comparative studies upon structure and the development of particular sets of organs in the different classes of vertebrates. The work serves as a preliminary to human anatomy for those who intend to take a medical course, or to pursue advanced human physiology.

Two lectures or recitations and six hours laboratory work per week.

Prerequisite: Course 2. 1906-1907.

6—*General Histology*. Second Semester. 5 hours

This course is intended to teach some of the methods of modern technique, as well as to aid the student in a more detailed study of animal structures. The course develops the more general methods and principles of preparing materials for microscopical examination.

Two lectures or recitations and six hours laboratory work per week.

Prerequisites: Courses 2 and 5. 1906-1907.

7—*Classification of the Plants and Ferns*. 2 hours

This is a laboratory course intended to supplement the systematic work of Biology 4. A certain

amount of reading may be required in addition to laboratory work.

Prerequisite: Course 4.

## CHEMISTRY

AUGUSTUS FARNHAM SHAW, Assistant Professor

The courses of instruction are based entirely on the individual work of the student in the laboratory, and are intended to develop his reasoning and observational powers. The second aim is to impart to the student a knowledge of the fundamental principles of the science, and to give him, as far as possible, familiarity with the properties of the more important substances and facility in their manipulation.

1—*General Chemistry.* First Semester. 5 hours

Physical and Chemical change. States of matter, elements, and compounds. Study of the following elements and of their more important derivatives: oxygen, hydrogen, nitrogen, carbon, fluorine, chlorine, bromine, iodine, sulphur, phosphorus, silicon, boron. The simpler laws of chemical combination. A number of easy numerical problems will be set for solution.

2—*General Chemistry.* Second Semester. 5 hours

Continuation of Course 1.

Study of the following metals and of their more important compounds: sodium, potassium, silver, copper, magnesium, calcium, strontium, barium, zinc, cadmium, mercury, aluminum, tin, lead, arsenic, antimony, bismuth, manganese, chromium, iron, nickel, cobalt, gold. Some analytical reactions are studied.

3—*Qualitative Analysis*. First Semester. 5 hours

Tests are made by each student for the recognition and separation of metals mentioned in Course 2, and of radicles derived from elements enumerated in Course 1. After the examination of easy mixtures, the analysis of more complex substances is made, including that of minerals and alloys of industrial importance. Lectures are given on the principles and theory of analysis.

Prerequisites: Courses 1 and 2.

4—*Qualitative Analysis*. Second Semester. 5 hours

Continuation of Course 3.

5—*Quantitative Analysis*. First Semester. 5 hours

Operations of weighing and measuring. The student purifies and analyzes a few simple salts so as to be familiar with the more usual conditions under which gravimetric analyses are performed. Volumetric methods also are practiced as far as time permits. The studies in chemical theory are continued from Course 4. Collateral reading of periodicals and works of reference is required.

6—*Quantitative Analysis*. Second Semester. 5 hours

Continuation of Course 5.

7—*Organic Chemistry*. First Semester. 5 hours

Composition, sources, and general properties of organic compounds. Hydrocarbons of the methane, ethylene and acetylene series. Substitution and oxidation products. Alcohols, aldehydes, acids. Fats, soaps, and carbohydrates. Compounds of carbons containing elements other than oxygen, hydrogen, and the haloids. Methods of determining



molecular weights. General theoretical relationships. Omitted 1905-1906.

Prerequisite: Course 6.

8—*Organic Chemistry*. Second Semester. 5 hours

Continuation of Course 7. Omitted 1905-1906.

Hydrocarbons with closed chains. Benzene and its derivatives. The simpler dyes. Organic synthesis.

## ENGLISH

JOHN GRIFFITH AMES, Professor of English

The work in this department is arranged upon a plan that first gives the student a general survey of the history of English and American Literatures from their beginnings to the present day. After these preliminary courses, more definite and minute study is bestowed upon courses that center in the most significant periods of those histories. In addition, courses are given in Rhetoric and Composition.

1—*Rhetoric*. First Semester. 2 hours

Practical work in the study of Rhetoric by the application of its principles to the writing of themes in Narration, Description and Exposition. Criticism of short themes in the classroom. Frequent consultations.

2—*American Literature*. Second Semester. 2 hours

An outline course, with as much classroom and supplementary reading as possible. A study of the chief authors from the Colonial Period to the present day.

3—*History of English Literature.* First Semester. 3 hours

An outline course, with much supplementary reading. The most important authors from the Anglo-Saxon Period to the present day. The various periods and influences are discussed in connection with the works of writers typical of each period.

4—*History of English Literature.* Second Semester. 3 hours  
Continuation of Course 3.

5—*Composition.* First Semester. 2 hours

Constant drill in written expression based on study of American prose authors, Franklin, Irving, Hawthorne and Poe. At first short themes are written daily, and later gradually lengthened and required less frequently. Lectures on the principles of composition. Criticism of themes in the classroom. Weekly individual consultations.

6—*Composition.* Second Semester. 2 hours

A continuation of Course 5. Advanced work. Themes are less frequent and longer than in Course 5. Weekly exercises in popular and literary subjects. Cultivation of individual style. Study of the short story.

Prerequisite: Courses 1 and 2.

7—*Eighteenth Century Poetry.* First Semester. 3 hours

Lectures, biographical and critical. The first few weeks are devoted to the study of Dryden and Pope and to the growth and characteristics of the Classical School. The beginnings of the Romantic

Movement in Poetry. Extensive supplementary reading. Fortnightly written reports.

8—*Nineteenth Century Poetry*. Second Semester.

3 hours

A continuation of Course 9. The development of the Romantic Movement and the Poetry of Revolt is further traced through the poetry of Burns, Scott, Coleridge, Wordsworth, Byron, Shelley, Keats, and Tennyson. The poetry of Arnold, Morris, Rossetti, and Swinburne is also studied if time permits.

Prerequisite: Course 9.

9—*The English Novel*. First Semester.

5 hours

The history and development of English Prose Fiction from 1485 to the present day. Brief outlines of Continental Prose Fiction before 1485. Extensive reading of the best works of the masters of English novel-writing. Study of styles, methods, movements, and schools. Weekly written reports. Lectures by the instructor.

10—*The English Novel*. Second Semester.

5 hours

Continuation of Course 11.

11—*Pre-Shakespearean Drama*. First Semester.

3 hours

A study of the origin, structure, and evolution of the English Drama from the Mysteries and Miracles to Shakespeare. Lectures by the instructor.

12—*Shakespeare*. Second Semester.

3 hours

Critical, textual, and literary study of selected plays; 2nd, Henry IV, Twelfth Night, Julius Caesar, Lear, Hamlet, The Tempest. Supplementary reading.

## FRENCH

STELLA LENORE COLE, Instructor

The courses in French are designed to give the student a good knowledge of the forms and structure of the language, and some acquaintance with its literature.

1—*Elementary French*. First Semester. 5 hours

Fraser and Squair, French Grammar. Reading of easy narrative prose. Dictation and memorizing.

2—*Elementary French*. Second Semester. 5 hours

Reading, composition and grammar.

Fraser and Squair, French Grammar; Aldrich & Foster, French Reader; Merimee, Colomba.

3—*Intermediate*. First Semester. 5 hours

Reading of modern fiction; Moliere, Le Misanthrope and one other play—Monday, Wednesday and Friday.

Review of grammar; practice in oral and written translations from English into French; resumes in French—Tuesday and Thursday.

Prerequisite: Course 2.

4—*Intermediate*. Second Semester. 5 hours

Romanticism in French Literature; Hugo, Hernani; Rostand, Cyrano de Bergerac; selections from other romantic poets—Monday, Wednesday and Friday.

Prerequisite: Course 3.

5—*Classic Drama*. First Semester. 3 hours

Representative plays of the great classical dramatists; history of the French theater; written reports on outside reading.

Prerequisite: Course 4.

6—*Eighteenth Century Literature*. Second Semester.

Studies in Montesquieu, Voltaire, Diderot, Rousseau, and Beaumarchais; collateral reading and reports.

Prerequisite: Course 5.

## GERMAN

STELLA LENORE COLE, Instructor

The aim of the instruction is to afford grammatical and linguistic training, and for those who have not had a classical course, a degree of literary culture.

Emphasis is laid upon the idiomatic sentence and the modern language, and to this end colloquial practice is held to be important.

1—*Elementary*. First Semester. 5 hours

Pronunciation, grammar, exercise in translating and memorizing. Simple reading matter is introduced early in the course.

Thomas, Practical German Grammar, Grimm, *Märchen* (van der Smitten).

2—*Elementary*. Second Semester. 5 hours

A continuation of Course 1, with reading of easy narrative prose.

Guerber, *Märchen und Erzählungen*, (for narra-

tion); Storm, Immensee (ed. Whitenack); Das Lied von der Glocke.

3—*Intermediate*. First Semester. 5 hours

A thorough drill in composition. German is now the language of the classroom.

Von Jagemann, Elements of German Syntax;  
Von Jagemann, Materials for German Prose Composition; Suderman Frau Sorge (ed. Guener).

4—*Intermediate*. Second Semester. 5 hours

Reports and resumes in German.

Wilhelm Tell (ed. Carruth); one other drama of Schiller.

5—*Advanced*. First Semester. 3 hours

A reading course in Freytag's Prose.

Selections from "Bilder aus der deutschen Vergangenheit."

Prerequisite: Courses 3 and 4.

6—*Advanced*. Second Semester. 3 hours

A reading course in Goethe's Dramas.

Egmont, with Schiller's Essays (ed. Winkler); Torquato Tasso (ed. Thomas).

7—*Outline Course in German Literature*. First Semester. 3 hours

A lecture course, conducted entirely in German. Considerable outside reading will be required, with reports in German.

Admission by application to the instructor.

8—*Outline Course in German Literature*. Second Semester. 3 hours

Prerequisite: Course 7.

## GREEK

DAVID MOORE ROBINSON, Head of Classical Department

1—*Elementary Greek*. First Semester. 5 hours

2—*The Anabasis*. Second Semester. 5 hours

Books I and II, with careful drill in forms and syntax; Greek composition. Students must take Course 2 immediately after completing Course 1.

3—*Xenophon and Homer*. First Semester. 5 hours

Books III and IV of the *Anabasis*. As an introduction to Homer, lectures upon Mycenaean Antiquities, Homer, Homeric dialect and meter, etc. Careful study of Book I of the *Iliad*.

Prerequisite: Course 2.

4—*Homer*. Second Semester. 5 hours

Course 3 continued. Books II and II of the *Iliad*, with selections from the other books and from the *Odyssey*. Lectures upon the Homeric World, the Homeric Question, Homeric Religion and Ethics, and the relation of Homer to the excavations at Mycenae, Tiryns, and Troy.

5—*Lysias and Plato*. First Semester. 5 hours

Reading of Lysias' most interesting orations with attention to his evidence upon points of Athenian history, law, and private life. Selections from Xenophon's *Memorabilia*. Reading of Plato's *Apology* and *Crito*, with selections from the *Phædo*. Lectures upon Plato and Socrates and Pre-Socratic Philosophy. Lectures upon Greek Literature, with reading of selections by the instructor. (Omitted in 1905-6.)



6—*Herodotus, the Drama, and New Testament.*

Herodotus' account of the battles of Marathon, Thermopylæ, and Salamis will be read. Euripides' *Alcestis*; Aristophanes' *Clouds*. Lectures upon the origin and development of tragedy and comedy, and upon scenic antiquities. The last six weeks of the semester will be given to a rapid reading of Paul's Epistles. Lectures on Greek literature continued. (Omitted in 1905-6.)

7—*Xenophon and Plato.* First Semester. 5 hours

Selections from Xenophon's *Hellenica* and *Memorabilia*. Reading of Plato's *Euthyphro* and *Gorgias*, with selections from the *Republic*. Lectures on Greek History and Plato's Life and Times. Lectures on Greek Literature, with reading of selections from Homer to Theocritus by the instructor.

Prerequisite: Course 4.

8—*Thucydides, the Drama, and New Testament.* Second Semester. 5 hours

Thucydides' account of the Sicilian expedition will be read. Lectures on the Sources of Greek History, especially on Herodotus, Thucydides, and Xenophon. Euripides' *Medea*; Aristophanes' *Frogs*.

Lectures upon tragedy and comedy and scenic antiquities. Rapid reading of the Gospel of Luke and the Acts. Lectures on Greek Literature continued.

Prerequisite: Course 5 or 7.

9—*Greek Life.* First Semester. 2 hours

The plan of this course is similar to that of Course 11 in the Latin department. The text-book used will be Gulick's "The Life of the Ancient

Greeks." This will be supplemented by lectures on Athenian topography, with reading of selections from Pausanias, on ancient customs which survive to-day in Greece. Such topics as the Greek house, education, amusements, dress, occupations, travel, religion, marriage, funeral rites, etc., will be discussed.

No knowledge of Greek is required for this course. (Omitted in 1905-6.)

10—*Introduction to Archaeology.* Second Semester.

2 hours

This course will consist of lectures on the Mycenaean Civilization, on Greek Architecture, the History of Greek Sculpture, and on Greek Vases. No knowledge of Greek is required.

## HISTORY AND POLITICAL SCIENCE

CHARLES HENRY RAMMELKAMP, Professor

In this department are included the courses in History, Politics, and Economics, grouped under the two heads of History and Political Science. A minimum amount of collateral reading is required in all the courses, the results of which are presented in written reports or examinations. In the more advanced courses in History the lectures and textbooks are further supplemented by the study of selected original documents.

## HISTORY

1—*The Middle Ages.* First Semester.

3 hours

The history of Europe from the latter part of the fifth to the end of the fifteenth century. The course aims to give a general view of the period from the fall of Rome to the discovery of America.

2—*Modern History.* Second Semester. 3 hours

The period covered extends from the Renaissance to the Franco-German War. Of the events of this period more especial attention will be given to the Protestant Reformation, the Thirty Years' War, the Seven Years' War, the Revolution of 1848, and the establishment of the present German Empire.

Courses 1 and 2 are introductory and required of students before admission into the other courses of the department.

3—*History of England.* First Semester. 3 hours

The history of England from the Norman Conquest to the accession of Elizabeth. Lectures, recitations, and collateral reading, supplemented by studies in Adams' and Stephens' Select Documents.

Prerequisites: Courses 1 and 2 or their equivalents.

4—*History of England.* Second Semester. 3 hours

The history of England from the accession of Elizabeth to recent times. Method of study similar to that of Course 3.

Prerequisite: Course 3.

5—*The Renaissance and Reformation.* First Semester. 3 hours

This course deals with the period from the fourteenth to the end of the sixteenth century. Beginning with a study of the Renaissance in Italy, the course will trace the development of the Revival of Learning in the other countries of Europe. The latter part of the semester will be devoted to a study of the religious revolt from the Church of Rome.

Prerequisites: Courses 1 and 2 or their equivalents.

6—*French Revolution and Napoleonic Era.* Second Semester. 3 hours

The course includes the history of the important countries of Europe between 1789 and 1815, but particular attention will be given to the Revolution in France and the consequent international complications, and to the rise and overthrow of the power of Napoleon.

Prerequisites: Courses 1 and 2 or their equivalents.

7—*American Colonial and Revolutionary History (1492-1783).* First Semester. 3 hours

A course on early American History from the period of discovery to the end of the War of the Revolution. Especial attention will be devoted to the Revolutionary War. Lectures, recitations, topical reports, and studies in Macdonald's Select Characters.

8—*American History (1783-1829).* Second Semester. 3 hours

A general course on the history of the United States from the end of the Revolution to the administration of Andrew Jackson. The course will deal mainly with the political and constitutional aspects of the period. Lectures, recitations, topical reports, and studies in Macdonald's Select Documents.

9—*American History (1829-1861).* First Semester. 3 hours

History of the United States from the administration of Andrew Jackson to the inauguration of Lincoln, with particular reference to the Jacksonian Democracy and the development of the slavery con-

troversy. Method of study similar to that of Course 8.

10—*American History* (1861-1876). Second Semester. 3 hours

History of the United States from the inauguration of Lincoln to the presidential election of 1876. Especial attention will be given to the constitutional and administrative questions of the Civil War and to the problems of Reconstruction. Method of study similar to that of Course 8.

11—*Seminary in History*. First Semester. 1 hour

A course designed for advanced students to give some training in original research. Introductory work on historical bibliography and criticism, followed by the writing of a thesis.

12—*Seminary in History*. Second Semester. 1 hour

A continuation of Course 11, giving an opportunity for further practical work in historical research.

Prerequisite: Course 11.

### POLITICAL SCIENCE

The courses in Political Science are designed for Juniors and Seniors; they are not open to Freshmen, and only by special permission to Sophomores.

1—*Economics*. First Semester. 3 hours

An elementary course in Political Economy. A study of the principal theories of economic science, with some consideration of the economic problems presented in the earlier and contemporary history of the United States.

2—*Political Institutions.* Second Semester. 3 hours

Introductory studies on the nature of the state and the interpretation of political terms, such as sovereignty, liberty, etc., followed by a detailed consideration of the government of the United States, with especial reference to present political problems. The governments of the important European countries will also be studied and compared with one another and with our own political system.

3—*Public Finance.* First Semester. 2 hours

A study of the general principles which determine public income and expenditure, with especial reference to taxation in the United States.

Prerequisite: Course 1.

4—*Money, Credit, and Banking.* Second Semester. 2 hours

The course deals with such subjects as the functions of money, laws of token money, legal tender, the history of gold and silver money in the United States, nature and functions of a bank, discounts and deposits, note issues, bank reserves, the national banking system, etc.

Prerequisite: Course 1.

5—*International Law.* First Semester. 2 hours

A course designed to explain the origin and interpretation of the rules governing the relations of modern nations. Especial attention will be given to the past and present problems of American diplomacy.

Prerequisites: Political Science, Course 2, and one year's work in History.

6—*Economic History*. Second Semester. 2 hours

The industrial history of England and the United States as a basis for a more intelligent interpretation of present economic conditions.

LATIN

CARL LYMAN WILLIS, Assistant Professor

In the work of the Freshman year the student's attention is directed to the subject of Latin style more closely than is possible in the preparatory school. Special emphasis is placed upon accurate translation into idiomatic English. Some time is given to sight translation throughout the year and to prose composition based on Cicero and Livy. In subsequent years more attention is paid to the authors read as interpreters of Roman life; the work is amplified by lectures on Latin Literature and special topics.

1—*Cicero and Livy*. First Semester. 5 hours

Cicero's *De Amicitia*; Livy, Book 1; lectures on the credibility of early Roman history; selections from Books XXI and XXII. Prose compositions.

2—*Lyric Poetry*. Second Semester. 5 hours

Selected poems of Catullus. The greater part of the semester is devoted to Horace's Odes and Epodes.

Prerequisite: Course 1.

3—*Sallust and Tacitus*. First Semester. 3 hours

Sallust's *Catiline*; the *Agricola* and *Germania* of Tacitus.

Prerequisite: Course 2. (Omitted 1905-6.)



4—*Comedy*. Second Semester. 3 hours

Selected plays of Plautus and Terence. Daily practice in reading aloud and in sight translation.

Prerequisite: Course 3. (Omitted 1905-6.)

5—*Epistolary Latin*. First Semester. 3 hours

Cicero, selected letters, studied particularly for their contribution to the history of the last years of the Republic; Pliny, selected letters, studied as illustrating the life of a Roman gentleman, official and man of letters under the early Empire.

Prerequisite: Course 2.

6—*Satire*. Second Semester. 3 hours

Selections from Horace, Juvenal and Persius; lectures on the historical development of Satire.

Prerequisite: Course 5.

7—*Roman Private Life*. First Semester. 2 hours

Among the subjects considered are the Roman family, business life, education, amusements, houses, dress, meals, baths, etc. The student will use as a manual Johnston's "The Private Life of the Romans."

Prerequisite: Course 2. (Omitted 1905-6.)

8—*Roman Religion*. Second Semester. 2 hours

A course of lectures tracing the development of Roman Religion from mere superstition to a complexity of gods, and showing how foreign cults affected the old form of worship.

Prerequisite: Course 7. (Omitted 1905-6.)

## MATHEMATICS AND ASTRONOMY

WILLIAM OTIS BEAL, Assistant Professor

The courses in Mathematics are designed to give, besides the inherent discipline, a thorough foundation for those intending to become teachers, or workers in pure or applied science.

In Astronomy one course of a descriptive nature is given for the general student, and a second as a foundation for work in Mathematical Astronomy.

1a—*Plane Trigonometry.* First half of First Semester. 5 hours

Ashton and Marsh, *Plane Trigonometry.*

1b—*Solid Geometry.* Second half of First Semester. 5 hours

Sanders, *Solid Geometry.*

1c—*Spherical Trigonometry.* Second half of First Semester. 5 hours

Required of students presenting *Solid Geometry* for entrance.

Ashton and Marsh, *Spherical Trigonometry.*

2—*College Algebra.* Second Semester. 5 hours

Wells, *Advanced Course in Algebra.*

3—*Analytical Geometry.* First Semester. 5 hours

The point, right line and conic sections in cartesian and polar co-ordinates. Discussion of the general equation of the second degree. Introduction to higher plane curves.

Candy, *Analytical Geometry.*

4—*Differential Calculus.* Second Semester. 5 hours

Continuation of Course 3.

Differentiation of functions of one or more variables, development of functions, indeterminate forms, maxima and minima. Many applications are made to geometry and mechanics.

Nichols, *Differential Calculus.*

5—*Integral Calculus.* First Semester. 3 hours

Continuation of Course 4.

Integration of elementary forms, of rational and irrational functions, of trigonometric and exponential functions; multiple integrals; applications to geometry and mechanics.

Nichols, *Integral Calculus.*

6—*Differential Equations.* Second Semester. 3 hours

The solution of the following forms are studied: exact, linear, simultaneous, and partial. Applications are made to Geometry, Mechanics, and Physics.

Prerequisite: Courses 1a, 1b, 2, 3, 4, 5.

Murray, *Differential Equations.*

7—*Analytical Mechanics.* First Semester. 2 hours

Continuation of Course 6.

Statics and Dynamics.

Bowser, *Analytic Mechanics.*

8—*Theoretical Astronomy.* Second Semester. 2 hours

Continuation of Course 7.

Fundamental motions, rectilinear and parabolic motion, solar heat, central forces, problem of two bodies, orbits, development of the ten known integrals.

Moulton, *Introduction to Celestial Mechanics.*

9—*Descriptive Astronomy.* First Semester. 4 hours

Fundamental facts and laws, with underlying principles; general theories and modern developments; instruments and general methods.

Prerequisite: Courses 1a, 1b, and 2.

Young, *Manual of Astronomy*.

10—*Surveying.* Second Semester. 4 hours

Recitations; field work with transit and level; measurement of angles, distances and areas; laying out of land and curves; determination of geographical position; leveling; plotting.

Prerequisite: Courses 1a, 1b, and 2.

Johnson, *Theory and Practice of Surveying*.

11—*History of Elementary Mathematics.* First Semester. 1 hour

Development of elementary mathematics. Lives and works of some of the world's great mathematicians. Informal. Reference reading, with reports.

12—*Seminar in Mathematics.* Second Semester.

Methods and subject matter of Mathematical teaching. Practice in the carrying out and presentation of original investigations. Informal.

## ORATORY

CARL LYMAN WILLIS, Assistant Professor

The courses in Oratory are planned with the idea of giving the student at least three consecutive years of work along lines which will develop his powers of clear and original expression. From the beginning course in Physical Culture to the study

of Dramatics in the Senior year, the individuality of the student is emphasized and his ease and grace in delivery cultivated by careful personal instruction.

1—*Declamation.* First Semester. 1 hour

Physical culture exercise for poise and bearing, for the vital organs, and for special muscles; critical study of English pronunciation; drill in reading.

2—*Declamation.* Second Semester. 1 hour

Physical Culture. Lectures on vocal culture and the relations of the vital and vocal organs. Declamation, study of selections from American writers, simple impersonations.

3—*Oratory.* First Semester. 2 hours

History of Oratory. Lectures upon the lives of the great orators. Study of the principles of Oratory, and analysis of standard Deliberative, Forensic, Pulpit and Demonstrative Orations. Preparation and delivery of Deliberative Orations.

4—*Oratory.* Second Semester. 2 hours

Preparation and delivery of Demonstrative Orations. Principles of argument, gathering of materials, and preparation of arguments on assigned subjects. Preparation of rebuttals.

5—*Evolution of Expression.* First Semester. 3 hours

Physical Culture. Laws of Evolution as applied to the development of the powers of vocal expression. Study of selections from the great orators,

essayists, dramatists, and poets in chronological order to illustrate Evolution of Expression.

Emerson, Evolution of Expression.

6—*Evolution of Expression.* Second Semester. 3 hours

Continuation of Course 5.

## PHILOSOPHY AND RELIGION

FREDERICK SMITH HAYDEN, Professor

The work in Philosophy is intended to be both cultural and disciplinary. The student is helped to think clearly and consistently upon the vital problems of life and of thought.

1—*Elementary Psychology.* First Semester. 3 hours

Study of the elementary processes of the mind, both from the psychological and the physiological point of view. James' "Briefer Course" or Clark-Murray's "Introduction" forms the basis of the work.

2—*Comparative Psychology.* Second Semester. 1 hour

A comparative study of the intelligence of animals from the lowest forms up to, and including man. The work of Morgan or Romanes is made the basis of the course.

Prerequisite: Course 1.

3—*History of Ancient Philosophy.* First Semester.

2 hours

This course deals with the development of thought among the Greeks and Romans especially. Weber's History of Philosophy is the text-book,

supplemented by the study of typical selections from the works of Plato, Aristotle, Seneca, Lucretius, etc.

4—*History of Modern Philosophy.* Second Semester. 2 hours

An outline of the development of modern thought from the Renaissance to our own times. Considerable attention is given to Descartes, Locke, Berkeley, Hume, Kant, and Hegel.

6—*Ethics.* Second Semester. 2 hours

A brief historical sketch—an outline of the main features of the most influential and representative ethical theories; the fundamental ethical concepts subjected to careful logical and psychological analysis; a more detailed study and criticism of the theories already studied in outline.

Prerequisite: Course 1.

8—*Theism and Anti-Theistic Theories.* Second Semester. 2 hours

A course supplementary to the courses in Philosophy, dealing with the scientific conception of the world, the design argument, materialism, agnosticism, and pessimism. Fisher's "Grounds of Theistic and Christian Belief" (new edition), or Fairbairn's "Philosophy of Christianity," will guide discussions in this course.

## PHYSICS

AUGUSTUS FARNHAM SHAW, Assistant Professor

The courses which are here presented are designed to give the student a knowledge of the gen-



eral phenomena of Physics, the methods and instruments which are used in their investigation, and the scope of modern work in the department. Special attention is given in the elementary work to the practical relation of the subject and every effort made to develop a spirit of scientific inquiry.

1—*General Physics*. First Semester. 5 hours

Mechanics, Sound, Light, will form the topics for the work of the first semester.

Two lectures or recitations, with six hours laboratory work per week.

2—*General Physics*. Second Semester. 5 hours

Heat, Electricity, and Magnetism will be taken up during the second semester. Special attention will be given to recent advances in Electricity.

Two lectures or recitations, with six hours laboratory work per week.

3—*Theoretical Physics*. First Semester. 3 hours

This course is intended for those who have completed Courses 1 and 2 and who desire to take up work in engineering. The theory of the experiments performed in the laboratory will be discussed in detail.

4—*Advanced Experimental Physics*. Second Semester. 3 hours

A continuation of Course 3. The experiments will be of a practical character and will consist for the most part of those relating to Light, Electricity, and Magnetism.

# **Whipple Academy**

## PREPARATORY DEPARTMENT

Whipple Academy, the preparatory department of Illinois College, has the same faculty as the College, and offers four years of carefully-graded work as follows:

## SUB-JUNIOR

English and Composition.  
Grammar and Spelling.  
Business Arithmetic and Bookkeeping.  
Commercial Geography.  
First Year Latin.

## JUNIOR

Rhetoric and English Classics.  
Greek and Roman History.  
Algebra through Quadratics.  
Physiography.  
Cæsar. Prose Composition.

## MIDDLE

English Classics. Theme Work.  
Botany and Zoology.  
Mechanical Drawing. Geometry.  
Cicero and Ovid. Prose Composition.  
First Year German.  
First Year Greek.

## SENIOR

English Classics. Themes. Oratory.  
English History. Civics.  
Physics.  
Chemistry.  
Vergil. Classical Geography.  
Second Year German.  
First or Second Year Greek.

For illustrated catalogue and full information address

R. O. STOOBS, *Principal*,  
Jacksonville, Illinois

**Illinois  
Conservatory of Music**

## GENERAL STATEMENT

The Illinois Conservatory of Music is one of the oldest and best known schools of its kind in the state, having been established in 1871, and through all these years maintained an exceptionally high standard of work. In January, 1903, it was merged with Illinois College, and has therefore been made doubly strong by the financial and educational support of that older institution. It has commodious quarters at Academy Hall, where there are practice rooms, a large recital hall, and the various offices and studios of the Conservatory.

## ADMISSION

Students will be admitted to the different departments of the Conservatory at any time, but it is always advisable to enter at the beginning of a semester. Work in the Theoretical branches, Harmony, Counterpoint, etc., and in Musical History, when done in classes, can only be taken up at the beginning of a semester.

## ADVANCED STANDING

Students who come from other conservatories or from private teachers will be given credit for work done.

## REGISTRATION

Students upon entering must register with the Director of the Conservatory. Registration is not completed nor the student admitted to work until a satisfactory settlement has been made with the College Treasurer for all the regular charges.

## TUITION, FEES AND OTHER FIXED CHARGES

Tuition, fees and other fixed charges have been made as low as possible so that no change can be made from the following schedule. A limited number of scholarships for especially deserving pupils are offered each year, which will in part pay the tuition charges.

The figures given, unless otherwise stated, are for a semester of eighteen weeks. The lessons are of thirty minutes duration.

## PIANO

	Assistant Teachers		Head of Department
Two lessons per week	\$30.00	\$45.00	\$50.00
One lesson per week -	17.00	25.00	30.00
Single lessons - -	1.50	1.75	2.00

## SINGING, VIOLIN AND ORGAN

Two lessons per week	-	-	-	-	\$50.00
One lesson per week	-	-	-	-	30.00
Single lessons - -	-	-	-	-	2.00

## HARMONY, COUNTERPOINT AND HISTORY

Two hour lessons per week, in classes	-	-	\$10.00
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## SIGHT SINGING

Two hour lessons per week, in classes	-	-	\$ 2.00
Piano rent, per hour -	-	-	5.00
Pipe organ rent, per hour	-	-	10.00

A schedule of expenses for board, lodging, etc., will be found elsewhere in this catalogue. (See page 39.)

## ATTENDANCE

Students are expected to be regular and prompt in attendance at lessons and classes; no allowance will be

made for lessons missed through fault of the student except in cases of protracted illness.

## GRADUATION

A teacher's certificate will be given to any student who satisfactorily completes Courses 1, 2, 3, 4, 8 and 9 in the Theoretical Department, and attains a certain degree of proficiency in two subjects, to be chosen from the following: Piano, Singing, Organ, Violin. In one of these subjects a public recital shall be given, and a practical working knowledge of the other attained.

A diploma, with the degree of Bachelor of Music, will be given by the Trustees of Illinois College to any student who satisfactorily completes the entire Theoretical Course, and in connection therewith, completes an original composition of sufficient merit to warrant its public performance; who attains an advanced degree of proficiency in two of the subjects mentioned above, in one of which a satisfactory public recital shall be given, and in the other a creditable public performance; and who shall possess a general education equivalent to that given by a four years high school.

## MISCELLANEOUS INFORMATION

Regular students' recitals will be given throughout the year in connection with the Conservatory work; all students are expected to appear in these recitals whenever requested by the teacher.

Members of the Conservatory Faculty will give public recitals from time to time which all students are expected to attend.



A course of recitals will be given by visiting artists, which all students are required to attend. A nominal fee will be charged in the semester's bill.

Students in Illinois College may elect work in the Theoretical Department, for which full credit will be given.

The Jacksonville Choral Club, whose conductor is the Director of the Conservatory, is open to students showing sufficient ability.

The Jacksonville Symphony Orchestra, which is under the direction of the head of the violin department, offers excellent advantages to advanced violin students.

COURSES OF INSTRUCTION

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## PIANO DEPARTMENT

Details of the courses in this department cannot well be specified. Our aim is to adapt instruction to the personal needs of each student for the development of a musical touch, and a refined and intelligent style of playing. To this end are used

- I. Technical exercises and etudes from the best teachers and composers, which are intended to give control of muscles of fingers, hands, and arms.
- II. Compositions of all grades from the best writers, both ancient and modern, as the theoretical and technical proficiency is developed.

## VOCAL DEPARTMENT

The instruction in singing aims to teach the correct use of the voice in song and speech, and to produce intelligent and artistic rendering of vocal music. The entire attention is at first devoted to the production of a perfect tone, with careful explanation of the use of the breath, and the proper placement of the tone.

Exercises and songs are given as soon as advisable, according to the need and ability of the individual student. No endeavor is made to follow out a fixed course or method, but to develop the student along the most wholesome lines, and to cultivate a taste and an appreciation of the best in vocal music.

## VIOLIN DEPARTMENT

It would be a useless task to outline a series of studies and to demand that the student should master the given material in a certain length of time. Violin literature is very comprehensive, and in choice of material, the individuality of the student

comes first into consideration, so that the selection of studies must be made according to the adaptation of the pupil. In the elementary work, the establishment of the fundamental principles of position and exact intonation, demand far more attention on the part of pupil and teacher, than the mere mastery of a certain amount of material.

When a pupil is able to participate in concerted work without detriment to his position, fingering, bowing, etc., he will be given opportunity to do so.

### ORGAN DEPARTMENT

Students desiring to study the Organ must have completed a certain amount of work on the piano in order to have acquired the requisite amount of technical facility. The course for the Organ will then include technical exercises and studies for the correct use of the manuals and pedals; Rink's Organ School, Buck's Pedal Phrasing Studies, and the Organ works of Handel, Bach, Mendelssohn, Guilmant, Widor, and other German, French, English and American composers. Special attention will be given to the use of the Organ for church work.

### THEORETICAL DEPARTMENT

1—*Harmony*. One Semester. 2 hours

Elementary harmony, including a thorough study of all major and minor scales, intervals, and triads in the major and minor keys. The triad is studied in all its inversions with harmonization of simple basses and melodies.

2—*Harmony*. One Semester. 2 hours

Continuation of the work of the first semester, especial attention being given to the dominant and secondary seventh chords with their inversions.

3—*Harmony*. One Semester. 2 hours

Suspensions, organ point, free and passing tones, chromatic alterations and enharmonic changes. Original melody writing. Analysis of phrases.

4—*Counterpoint*. One Semester. 2 hours

Two, three and four part counterpoint in the five species.

5—*Counterpoint*. One Semester. 2 hours

Double, triple and quadruple counterpoint, and counterpoint in the tenth and twelfth.

6—*Canon and Fugue*. One Semester. 2 hours

Two and three part canon, two, three and four part fugue.

7—*Analysis*. One Semester. 2 hours

Study of the elements of musical form, examining in detail the motive, section, phrase, and period. The shorter periodic forms are studied first and later the extended song and dance forms.

8—*History of Music*. One Semester. 2 hours

The development of music in all its forms from the earliest beginnings to the present time, carried on by means of text-book, lectures, papers by the students on assigned topics and frequent illustrations.

9—*Sight Singing*. One Semester. 2 hours

The elements of music as applied to singing, including ear training, notation, time and rythm, part singing and chorus work, with suggestions on expression and the proper use of the voice. The course aims to teach persons with little or no musical training, to sing at sight.

# Register

## DEGREES CONFERRED, 1904

## BACHELORS OF ARTS

Walter Henry Balke	Melvil Talbot Kennedy
Edward Philip Brockhouse	Benjamin Franklin Lane
Charles Moseley Eames	Evert Dean Martin
Arthur Frederick Ewert	Lawrence Newton Wylder
William C. Capps, Class of 1893	

## IN ABSENTIA

J. S. McClung, Class of 1863

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## COMMENCEMENT SPEAKERS

June, 1904

Lawrence Newton Wylder	Melvil Talbot Kennedy
Evert Dean Martin	Charles Moseley Eames
Arthur Frederick Ewert	

## CLASS HONORS

## MAGNA CUM LAUDE

Lawrence Newton Wylder

## CUM LAUDE

Walter Henry Balke	Evert Dean Martin
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DEGREES CONFERRED  
AT THE  
CELEBRATION  
OF THE  
SEVENTY-FIFTH ANNIVERSARY  
OF THE  
FOUNDING OF ILLINOIS COLLEGE  
SEPTEMBER 21-23, 1904

## DOCTORS OF LAWS

Richard Yates.....Governor of Illinois  
Hugo de Vries.....University of Amsterdam  
Benjamin Ide Wheeler..President University of California  
David Starr Jordan.....  
President Leland Stanford, Jr., University  
Cyrus Northrop.....President University of Minnesota  
William Rainey Harper..President University of Chicago  
William Lowe Bryan....President University of Indiana  
William F. Slocum.....President University of Colorado  
John Martin Vincent.....Johns Hopkins University  
Benjamin Wisner Bacon.....Yale University  
Rev. James Gore King McClure.....Lake Forest, Ill

## MASTERS IN ARTS

Hugh M. Wilson.....Chicago  
Joseph Medill Patterson.....Chicago



# Students Enrolled

1904=5

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## THE COLLEGE

### SENIORS

Walter Bellatti	<i>Jacksonville</i>
Edward Tanner Brown	<i>Waverly</i>
Clarence Edwin Carter	<i>Jacksonville</i>
Frederick Putnam Cowdin	<i>Chapin</i>
Frederick Munroe Duckles	<i>Carlinville</i>
Robert Emmet Harmon	<i>Jacksonville</i>
Edward Dronsfield Jackson	<i>Jacksonville</i>
Joseph Hodge Pires	<i>Jacksonville</i>
Lathrop Huntington Ward	<i>Jacksonville</i>

### JUNIORS

Alden Brown	<i>Jacksonville</i>
James Howard Brown	<i>Jacksonville</i>
Charles Arthur Carriel	<i>Jacksonville</i>
Eva Mace Cochran	<i>Jacksonville</i>
George Bone Conover	<i>Virginia</i>
Harry Struble Freeman	<i>Jacksonville</i>
Herbert Arthur Graves	<i>Neosho, Mo.</i>
Erle Josiah Hurie	<i>Petersburg</i>

Wiley Linn Hurie	<i>Petersburg</i>
Roy Zinn McKown	<i>Athens</i>
Emily Ainslie Moore	<i>Jacksonville</i>
Eva C. Noelsch	<i>Jacksonville</i>
Antoinette Pires	<i>Jacksonville</i>
Ira Eneas Scott	<i>Franklin</i>
Joseph Bowers Sinclair	<i>Ashland</i>
Frederick Linn Spencer	<i>Jacksonville</i>
Ray George Van Gundy	<i>Chapin</i>
Jay Earl Wemple	<i>Waverly</i>
Oliver Bliss Williams	<i>Quincy</i>

## SOPHOMORES

Harold Hemingway Brook	<i>Jacksonville</i>
Thomas Bernard Butler	<i>Jacksonville</i>
Leah Cassell	<i>Jacksonville</i>
Anna Edith Day	<i>Jacksonville</i>
Jennie Eldred	<i>Thomasville</i>
William Thomas Harmon	<i>Jacksonville</i>
Thusnelda Heegard	<i>Elmhurst</i>
Philip John Kennedy	<i>Jacksonville</i>
Frank Stewart McKinney	<i>Chapin</i>
Mabel Moore	<i>Clinton</i>
Ward Newman	<i>Jacksonville</i>
Roswell Olcott Post	<i>Jacksonville</i>

Lucinda Maude Rathbone	<i>Harrisburg</i>
Abner Frank Spencer	<i>Jacksonville</i>
Carrie Sprecher	<i>East St. Louis</i>
Carl Clifford Stephenson	<i>Sparta</i>
Ross McGhee Stiff	<i>Harrisburg</i>
Joseph Oscar Stith	<i>Petersburg</i>
Howard Thompson	<i>Macomb</i>
Florida Easter Tolbert	<i>Chambersburg</i>
Merle Watson Vittum	<i>Norris</i>
Wilbur Charles Williams	<i>Chapin</i>
Thomas Earl Wylder	<i>Jacksonville</i>

## FRESHMEN

Thomas Chester Angerstein	<i>Donnellson</i>
Ruth Bailey	<i>Jacksonville</i>
Daniel Ernest Baird	<i>Sparta</i>
Gladys Louise Cochran	<i>Jacksonville</i>
Helen Winifred Cudner	<i>Berwyn</i>
Roy Empson	<i>Harrisburg</i>
Walter Leslie Frank	<i>Poplar Bluff, Mo.</i>
Ernest Rockwell Frost	<i>Jacksonville</i>
Carl Oscar Gordon	<i>Lynnville</i>
Harold Graves	<i>Neosho, Mo.</i>
Laura Lucille Gunn	<i>Jacksonville</i>
Minerva Hairgrove	<i>Waverly</i>

William Earl Killpatrick	<i>Hillsboro</i>
Harry Joseph Lohman	<i>Ashland</i>
Georgia Marie Lutkemeyer	<i>Jacksonville</i>
Marshall Paul McDonald	<i>Jacksonville</i>
George Foster Massey	<i>Jacksonville</i>
Clifford Gordon Maxwell	<i>Sparta</i>
Chester Arthur Nunes	<i>Jacksonville</i>
Walter Forest Ogle	<i>Jacksonville</i>
George Julius Orear	<i>Jacksonville</i>
Marcey Wood Osborne	<i>Jacksonville</i>
Carl Leslie Peckham	<i>Jacksonville</i>
Marie Louise Robertson	<i>Jacksonville</i>
Guy Emerson Rook	<i>Jacksonville</i>
Frederick Ambrose Schrader	<i>Murphysboro</i>
Albert Carlton Shibe	<i>Roodhouse</i>
Charles Booth Spruitt	<i>Jacksonville</i>
Katheryn Imogene Toler	<i>Murphysboro</i>
Golda Van Dyke	<i>Greenup</i>
Dorothy Virgin	<i>Arenzville</i>
George W. White	<i>Woodson</i>
Barclay William Wycoff	<i>Jacksonville</i>

## SPECIAL STUDENTS

Edith Virginia Adams	<i>Jacksonville</i>
Ruth Bellatti	<i>Jacksonville</i>

Bessie Harriet Clemmons	<i>Jerseyville</i>
Etta Marie Clemmons	<i>Jerseyville</i>
Roy Ellis Crampton	<i>Jacksonville</i>
Ferna Estelle Downs	<i>Shelbyville</i>
Clara Epler	<i>Jacksonville</i>
Ida Bertram French	<i>Greenfield</i>
Charlotte Calhoun Hayden	<i>Jacksonville</i>
Rachael Jerauld	<i>Vandalia</i>
Charles William Kneeland	<i>Griggsville</i>
Mabel Fairbank Mathews	<i>Jacksonville</i>
Lee Ayers Piggott	<i>Warsaw</i>
Katherine Pauline Suydam	<i>Canton</i>
Helen Louise Ward	<i>Jacksonville</i>
Ada E. Wolfarth	<i>Whitehall</i>

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## WHIPPLE ACADEMY

## SENIORS

Helen Louise Ayers	<i>Jacksonville</i>
Amy Jane Ball	<i>Farmersville</i>
Carol Frances Brown	<i>Jacksonville</i>
Grace Burns	<i>Sweet Water</i>
Warren Case, Jr.	<i>Jacksonville</i>
Glover William Crum	<i>Easton</i>
Libbie May Ellis	<i>Manchester</i>

Roy D. Funk	<i>Jacksonville</i>
George Frederick Goebel	<i>Jacksonville</i>
Edgar Earle Gordon	<i>Winchester</i>
Claude Augustus Grove	<i>Jacksonville</i>
William Munroe Huffman	<i>Beverly</i>
William J. Kirby	<i>Jacksonville</i>
Mary Francina Ladd	<i>Ipava</i>
Clara Catharine Moore	<i>Jacksonville</i>
Richard Yates Rowe	<i>Jacksonville</i>
Henry Paul Samuell	<i>Jacksonville</i>
Perry Paul Thompson	<i>Jacksonville</i>
Fred Gooding Walter	<i>Jacksonville</i>

## MIDDLE CLASS

Margaret Ayers	<i>Jacksonville</i>
William Abram Baxter	<i>Ashland</i>
Frank H. Blair	<i>Cutler</i>
William Everett Clegg	<i>Chandlerville</i>
George Lawrence Foster	<i>Enumclaw, Wash.</i>
Jesse Harrison Fox	<i>Virginia</i>
Ralph Moore Goltra	<i>Jacksonville</i>
Bessie Ella Harrison	<i>Sinclair</i>
Lillian Havenhill	<i>Jacksonville</i>
Leila Clare Hayden	<i>Milton</i>
Fletcher McDonald	<i>Brownstown</i>

Eva Leota Mortimer	<i>Woodson</i>
Cordelia Georgia Pierson	<i>Jacksonville</i>
Leslie Rockwell Stowell	<i>Ashland</i>
Anna Elizabeth Thomas	<i>Thomasville</i>
Grover Cleveland Thompson	<i>Chambersburg</i>
James Cornelius Wall	<i>Staunton</i>

## JUNIOR CLASS

Jeffrey Cleary	<i>Jacksonville</i>
Clifford Harrison Dixon	<i>Tamalco</i>
Daniel Thomas Frakes	<i>Brownstown</i>
Waldo Emerson Johnson	<i>Rochester</i>
Arthur J. Martin	<i>Jacksonville</i>
Harry McDonald	<i>Fort Gage</i>
Earle Otis Mortimer	<i>Woodson</i>
Mary Ethel Roberts	<i>Bellefourche, S. Dak.</i>
Fred Miller Rook	<i>Woodson</i>
Emma Marie Tomhav	<i>Chapin</i>
Benjamin Burnett Watson	<i>Lynnville</i>
Clarence Carter Wemple	<i>Waverly</i>
Charles Oscar Williams	<i>Litchfield</i>

## SUB-JUNIOR CLASS

Lois Marie Baptist	<i>Jacksonville</i>
Pedro Bicudo	<i>Sao Paulo, Brazil</i>
Ida Leona Miller	<i>Ballinger, Texas</i>



Glyde Clifford Moore	<i>Ipava</i>
Frank Garm Norbury	<i>Jacksonville</i>
Montgomery Lovell Stubblefield	<i>Jacksonville</i>
Edwin Charles Vickery	<i>Jacksonville</i>
Harry Wood	<i>Jacksonville</i>

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## ILLINOIS CONSERVATORY OF MUSIC

Louise Armstrong	<i>Jacksonville</i>
Helen Louise Ayers	<i>Jacksonville</i>
E. Vorce Bassett	<i>Jacksonville</i>
Rose A. Bellatti	<i>Jacksonville</i>
Carl A. Bergschneider	<i>Jacksonville</i>
Ethel Corinne Booth	<i>Danville</i>
Hazel Mae Brown	<i>Jacksonville</i>
J. Howard Brown	<i>Jacksonville</i>
Oleta Mae Brown	<i>Jacksonville</i>
Susan L. Brown	<i>Jacksonville</i>
Eleanor Capps	<i>Jacksonville</i>
Leah N. Cassell	<i>Jacksonville</i>
Fred Putnam Cowdin	<i>Chapin</i>
Mabel P. Cowdin	<i>Chapin</i>
Nellie Cunningham	<i>Jacksonville</i>
Zella M. Daub	<i>Jacksonville</i>
Ferna Estelle Downs	<i>Shelbyville</i>

Carrie Dunlap	<i>Jacksonville</i>
Arthur Grant Ellis	<i>Jacksonville</i>
Mabel H. Goltra	<i>Jacksonville</i>
Cora Gordon Graham	<i>Jacksonville</i>
Laura J. Green	<i>Jacksonville</i>
William Eugene Happy	<i>Jacksonville</i>
Earl J. Hurie	<i>Petersburg</i>
Wiley Linn Hurie	<i>Petersburg</i>
Ruth C. Irving	<i>Jacksonville</i>
Edwin D. Jackson, Jr.	<i>Jacksonville</i>
Rachael Small Jerauld	<i>Vandalia</i>
Mary Aileen Leach	<i>Jacksonville</i>
Lela L. Lohman	<i>Ashland</i>
Mabel Fairbank Mathews	<i>Concord</i>
Leona Miller	<i>Ballinger, Texas</i>
Nellie Miller	<i>Jacksonville</i>
Ainslie E. Moore	<i>Jacksonville</i>
Clara Catherine Moore	<i>Jacksonville</i>
Eva L. Mortimer	<i>Woodson</i>
Grace Duncan Poor	<i>Jacksonville</i>
Lucinda Maude Rathbone	<i>Harrisburg</i>
Mary Ethel Roberts	<i>Bellefourche, S. Dak.</i>
Mrs. Andrew Russel	<i>Jacksonville</i>
Catherine Lang Russel	<i>Jacksonville</i>

Stuart Russel	<i>Jacksonville</i>
Nellie Sarah Schaffer	<i>Virginia</i>
Frank Barlow Schermerhorn	<i>Jacksonville</i>
Oliver E. Schofield	<i>Jacksonville</i>
Ira E. Scott	<i>Franklin</i>
Frances Marie Scott	<i>Jacksonville</i>
Harriet Sewall	<i>Wichita, Kan.</i>
Joseph Bowers Sinclair	<i>Ashland</i>
Anna Louise Stevenson	<i>Jacksonville</i>
Ross M. Stiff	<i>Harrisburg</i>
Mrs. R. O. Stoops	<i>Jacksonville</i>
Katherine Pauline Suydam	<i>Canton</i>
Katie J. Taylor	<i>Virginia</i>
Minerva C. Thomas	<i>Thomasville</i>
Howard Thompson	<i>Macomb</i>
Irene Thompson	<i>Jacksonville</i>
Jeanette Thompson	<i>Jacksonville</i>
Emma Maria Tomhave	<i>Chapin</i>
Merle W. Vittum	<i>Knoxville</i>
Clarence C. Wemple	<i>Waverly</i>
J. Fred Williams	<i>Jacksonville</i>
Annie A. Willis	<i>Jacksonville</i>
Jesse Newton Winterbottom	<i>Jacksonville</i>
Morrison Worthington	<i>Jacksonville</i>







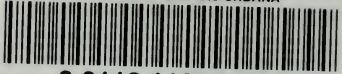








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